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HEMIST AND DRUGGIST

SEPTEMBER 1, 1945

The



HEMIST AND DRUGGIST

or RETAILER - WHOLESALE - MANUFACTURER

Founded 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

3421
XLIV

SEPTEMBER 1, 1945

Annual Subscription (with
Diary) 25/- Single copies 9d.

THE CHILDRENS' CHOICE

Torch Brand

**MALT
& OIL**



ALLEN & HANBURYS LIMITED, LONDON, E.2

PHONE: BISHOPSGATE 3201 (12 LINES). WIRES: "GREENBURYS, BETH, LONDON"

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The
**PARKE-DAVIS
EMERGENCY
PRICE LIST
1945**

is now available and is offered free, on request. Applications for a copy should be specially addressed to the Publications Dept., Parke, Davis & Co., 50 Beak Street, London, W.1, and should be accompanied by a 1d. stamp in order to satisfy the requirements of the Control of Paper Order.

Owing to the necessarily limited number published, only one copy of this list per pharmacy can be supplied.



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50 Beak Street,
LONDON, W.1
Inc. U.S.A., Liability, Ltd.

Show 'Elasto'—It Sells on Sight!

It's advertised as a Chemist's Line

Elasto

REGISTERED

The Wonder Tablet

Read What Users of 'Elasto' Say:—

Original letters have been seen by a representative of "The Chemist and Druggist")

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"As a sufferer of varicose veins, I must state before using 'Elasto' I was tortured with red and aching legs. After taking a month's supply of 'Elasto' I remark with emphasis that feeling of tiredness and aching has vanished. All sufferers of varicose veins I certainly commend 'Elasto'—they are a boon."

1180.

— R. P.

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"I may say that I have found 'Elasto' a wonderful help. For years I suffered with rheumatism in my feet and legs, and at times found it difficult to go about. 'Elasto,' however, afforded me im-

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AT 1108.

— F. T.

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AH 1263.

— E. H.

THESE generous acknowledgements are an indication of the solid goodwill behind Elasto. Thousands of users, all over the country, are daily telling their friends of similar experiences with this fine remedy.

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PATA

The NEW ERA TREATMENT CO., LTD.

DEPT. R

88, CECIL HOUSE, HOLBORN VIADUCT, LONDON, E.C.1

Gentlemen!
look
to your
stocks....



Many a fine turnover has declined through shortage of supplies. Your stocks of Beecham's Pills may look good at the moment—but where will they be when your next delivery is due? Cutting things fine entails the risk of being without—and that means unsatisfied demand passing down the street, buying where stock happens to be good. Please make check on your position now—and when you order Beecham's Pills order well.

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supplies of

Beecham's
Pills

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Super-Suspensible **BISMUTH CARBONATE**

A light Bismuth Carbonate which is not excessively bulky in the dry state but diffuses perfectly in a fluid mixture giving a prolonged and homogeneous suspension. Even after long standing it is readily re-diffused.

Evans Super-Suspensible Bismuth Carbonate is consistent in density and maintains a standard of purity which meets the demands of all pharmacopœias.

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FINE CHEMICALS • BIOLOGICALS • PHARMACEUTICALS

"Shipmates"



Pictures like this — intimate studies of doggy companionship — are a very popular feature of the Bob Martin national advertising. And the accompanying message is always simple, homely and readable. The current series explains why dogs have particular need of regular conditioning in summer as a pro-

tection against 'warm weather' disorders. Published in a long list of papers and periodicals covering the whole country, this advertising is steadily increasing the demand for Bob Martin's. Retailers will be well advised to replenish their stocks in good time, and to include a margin for 'extra sales.'

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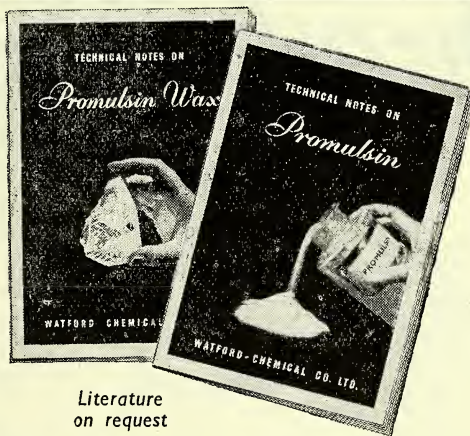
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This valuable series of emulsifiers now covers a wide field, ranging from the highly purified edible PROMULSIN POWDER and PROMULSIN-E.C.—water-dispersible ethyl cellulose, through PROMULSIN VAX for pharmaceutical, cosmetic, and allied products, to PROMULSIN .N.—an economical industrial emulsifier for cutting oils, bitumen, etc.

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to Hospitals, Public Institutions, Local Councils,
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Carbolic Disinfecting Fluids containing 10% to 80% Tar Acids.

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UCAL WORKS . . . CHELTENHAM.

★ **Take the short cut!** ★

This may well be Britain's hardest winter, from the food point of view. Nevertheless, no one need go short of fats and vitamins, because there is now plenty of home-produced SevenSeaS.

But supplies must be where the public can get them — in the shops. Last winter many dealers had to refuse custom because supplies had not reached them, though there was no shortage of the oil itself. Transport and manpower difficulties were to blame, and these are not likely to be greatly eased in the near future.

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STANDARD OIL: Vitamin A 20,000 I.U. ; Vitamin D 2,500 I.U. per ounce.

CONCENTRATED: Vitamin A 60,000 I.U. ; Vitamin D 6,000 I.U. per ounce.

Issued by

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ST. ANDREW'S DOCK, HULL**

Makers of

SevenSeaS



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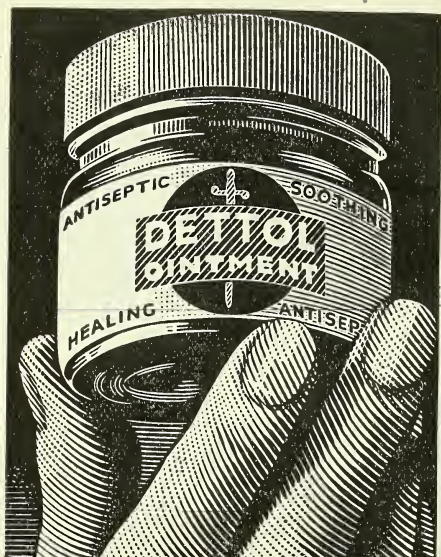
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The amount of Ayrton Products carried by sea is greater than ever, but the needs of the Forces decide the destination.

To our Overseas friends we send our greetings and assure them of the return of the Ayrton Service at the earliest opportunity.

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SAUNDERS
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'Dettol' Ointment is now packed in jars, instead of tubes, in order to save metal for munitions.

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presents the active germicidal principle (*P*-chlor-*M*-xylenol) of 'Dettol' antiseptic in a smooth, soothing base.

The base is emollient and curative. It penetrates deeply, effecting close and prolonged contact between the bacteria and the bactericide. For all septic, and potentially septic, conditions of the skin, where an ointment form is preferable to a liquid antiseptic, 'Dettol' Ointment may be recommended with confidence.

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An excellent formula
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A mother asks you

"Can you recommend? . . ."

"Can you recommend an introductory cereal food for my baby of 5½ months?"

"Certainly. Here's M.O.F. It's a finely sieved, fortified Infant Cereal specially processed for quick cooking."

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"M.O.F. is recommended for general use in infant dietary from 5 months onwards. It can be given as an addition to a simple milk mixture, or later as the staple part of a mixed diet. In cases where weaning must take place at an early age, M.O.F. may be given from 3 months. It can also be used to supplement breast milk."

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	Per cent.		Grams per oz.
Fat	6.2	Fat	1.85
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Carbohydrate ..	70.0	Carbohydrate ..	19.87
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Fibre	0.2	Iron	5.0
Moisture	10.2	Calcium	120.0
		Phosphorus ..	150.0
Vitamin B ₁ as Aneurin			Per oz.
		Hydrochloride	0.079 mg.
Vitamin D			600 I.U.
Calories			110

Compare this with any other Infant Cereal

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MIDLOTHIAN OAT FOOD
M.O.F.

M.O.F. IS PREPARED BY A. & R. SCOTT LTD., WEST MILLS, MIDLOTHIAN, SCOTLAND



Beeftea, made from Concentrated OXO, contains the physiological stimulants of beef which aid assimilation, promote muscular activity and act as restoratives in debility.

Concentrated OXO contains 0.5-0.6 Mg/Gm of the Vitamin Niacin (References: Drummond & Moran, Nature 1944, 153, 99, Frankau, BMJ, 1943, 11, 601)

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plus **VITAMIN B₁**

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can be recommended with confidence
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**TIREDNESS • LASSITUDE
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PATA

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HAS NOT ONLY SECURED AN UNPRECEDENTED SUCCESS AS THE
MOST EFFICIENT TREATMENT FOR

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BUT IT HAS ALSO PROVED A REMARKABLE BUSINESS GETTER OWING
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PATA



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PENTNOR
REGD. TRADE MARK

**HERBAL
SHAMPOO GRANULES**

*A winning hand
for sales*

—Four shampoos that will delight your customers—not plentiful yet but limited supplies are available. So send your orders now!



Retail 1/- each

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Wholesale for fair hair

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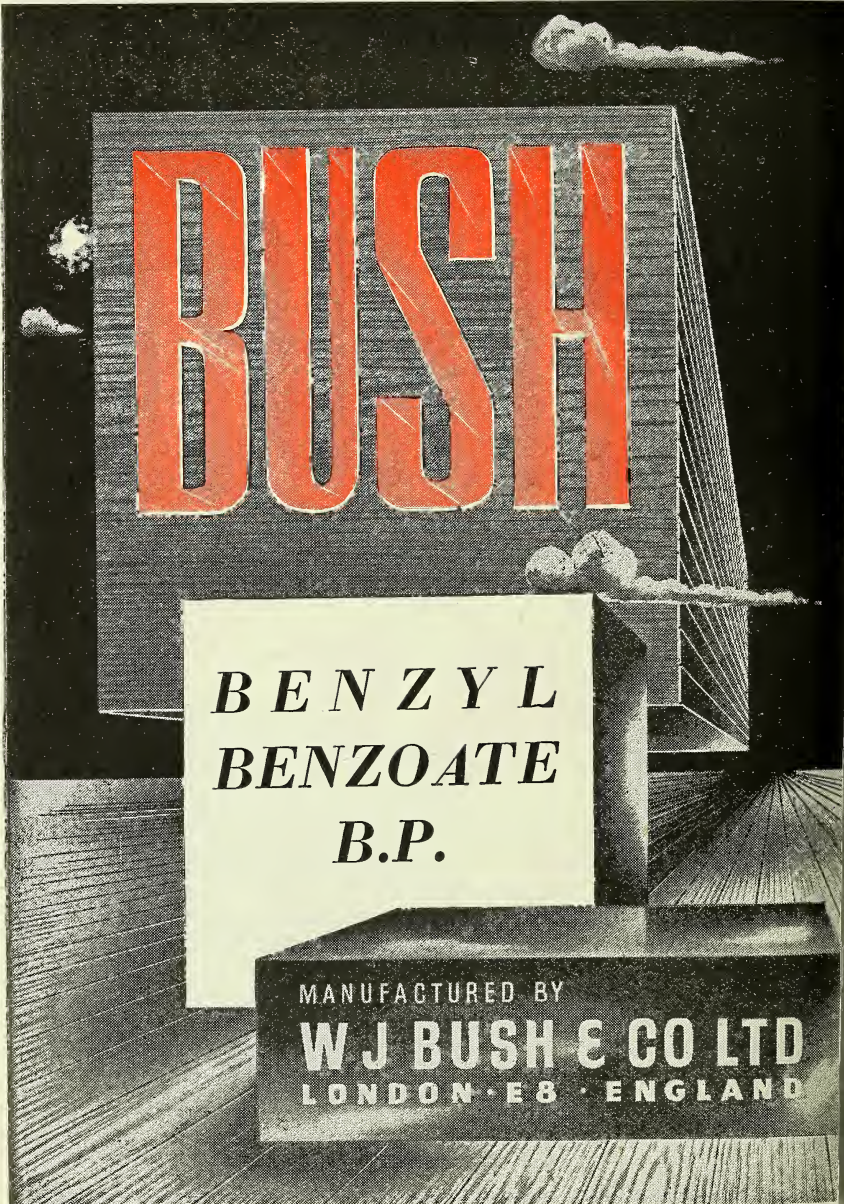
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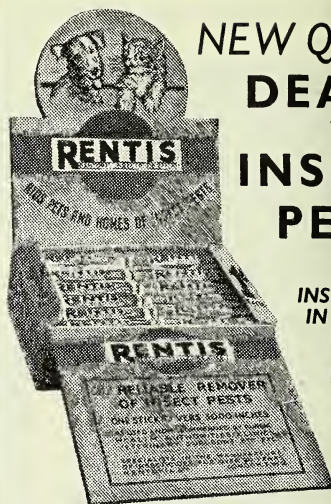


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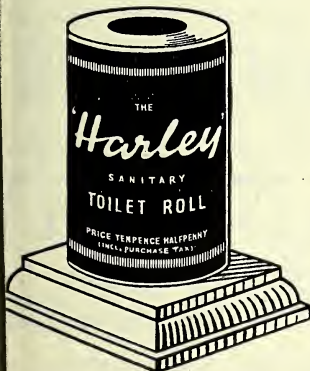
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NEWS OF THE WEEK

Pharmacy Undertakings Change.—The Central Pharmaceutical War Committee (England and Wales) and the Scottish Central Pharmaceutical War Committee state that the request for information concerning the business done and staffs employed by pharmaceutical undertakings is hereby withdrawn, in accordance with a decision of the Central Pharmaceutical War Committees. Persons responsible for carrying on any pharmaceutical undertaking, i.e. a retail pharmacy, hospital dispensary, manufacturing or wholesale undertaking, need therefore no longer notify the engagement, resignation, or transfer of staff to the Central Pharmaceutical War Committee or to the Scottish Central Pharmaceutical War Committee, unless a further request for information is made under the appropriate order. The position of pharmacists and dispensers under the Control of Engagement Order, 1945, is not affected by the above decision.

Commercial Conditions in Egypt.—The Department of Overseas Trade has pub-

lished a Review of Commercial Conditions in Egypt. This Review may be obtained from His Majesty's Stationery Office, York House, Kingsway, London, W.C.2, or through any bookseller, at one shilling net. The reviews previously published in this series, and also obtainable from the above sources, are priced at sixpence or one shilling net, each according to length. (Subscription rate for the entire series of twenty-eight countries is £1 delivered as published.) The Review of Commercial Conditions in Egypt surveys comprehensively the growth of industrialisation in Egypt during the war, and the post-war market for goods of United Kingdom manufacture. It draws attention to the probability of a large demand in the immediate future for capital goods, machinery spares and high-quality consumer goods.

D.D.T. to Combat Infantile Paralysis.—Rockford, Illinois, hit by one of the worst epidemics of infantile paralysis in history, has been sprayed with D.D.T. insecticide by a bomber flying over the stricken city.

Shop Assistants' Educational Scheme.—The Shop Assistants' Union have launched their comprehensive post-war educational scheme under which members can avail themselves of the facilities provided by the Workers' Educational Association, the Workers' Educational Trade Union Committee, the Marx House Memorial Library and Workers' School and the Co-operative Union, Limited, Education Department. The facilities provided include correspondence courses on a wide variety of subjects; classes of various kinds; study circles and discussion groups, one-day and week-end schools and summer schools of one week's duration. Arrangements made provide for the repayment of class and course fees and the provision of scholarships for the schools. Particulars of the scheme are set out in a printed booklet which is being issued to Union branch secretaries and collectors, to whom members are advised to apply for particulars.

High-speed Exports.—Inquiries are being made by a group of manufacturers on the Wythenshawe Trading Estate, Manchester, into the possibilities of establishing an air freight service to Europe. The aim is to provide a 24-hour delivery service. According to one manufacturer: "The destruction of Germany's industries has given us a wonderful opportunity in the North to cultivate the Northern European market for precision instruments, drugs, chemicals, and electrical supplies."

Irish Chemists at Golf.—On Wednesday, August 15, the Irish Chemists' Golfing Society gathered at Woodbrook, Bray, when competitions were held for prizes presented by P. C. Cahill, Ltd., and Irish Pharmaceuticals, Ltd. The competition for the P. C. Cahill prizes was an eighteen holes strokes, and the winner was Mr. J. T. Foley (17) with 67, while the runner-up was Mr. M. Daly (20) with a score of 70. For the I.P.L. trophies there was an eighteen holes bogey contest in which the first prize went to Mr. D. Bridgeman (13) all square. The runner-up was Mr. J. Smyth (12) one down. At the supper held subsequently Mr. A. Maher, the captain, congratulated the members on such a fine attendance. The prizes were then presented by Mr. John P. Holland, manager of Messrs. Cahill. A cordial vote of thanks to the donors was passed on the motion of Mr. Foley, seconded by Mr. Daly, to which Mr. Holland replied. The next outing of the Society will be on Wednesday, September 12, and the venue will be the Rathfarnham Golf Club.

B.E.T.R.O. Public Relations Officer.—Commander Philip Baker, O.B.E., R.N. (Ret.), has been appointed public relations officer to the British Export Trade Research Organisation. Before the war he acted in a similar capacity to North-Eastern Trading Estates, Ltd. In a statement to the Press Commander Baker said that his new job has at least one thing in common with his pre-war activities: both aimed at creating employment. Market research is such a new science that few people, even in industry, really understand what it means or how it can help them. Widely speaking, it means finding out the facts about the peculiar tastes of people who live, think and act differently from us. Membership of B.E.T.R.O. is open to any British firm large or small, which has the perception to see that market research is essential to its sales policy, if it is to compete with America, which is far from backward in the exploitation of this new science. The work of B.E.T.R.O. should be of special appeal to the thousands of smaller manufacturers entering the export market, who have not had the world-wide experience of their bigger brothers.

Mobile Pharmacy.—The Health Committee of the Warwickshire County Council has been presented by Sir Robert and Lady Bird with a mobile pharmacy provided out of funds from British and American sources for use in the defence of Britain. The vehicle was constructed at Solihull, and has been taken to Warwick. It is mounted on a Morris Commercial chassis, and is 25 h.p. In addition to fittings for the storage of medicines, drugs, etc., it is equipped with special lighting for the treatment of patients. The pharmacy can be adapted for a variety of purposes, for example as a mobile child-welfare unit or as an immunisation centre, and Sir Robert and Lady Bird informed the committee that a balance is available to meet the cost of any necessary adaptation and equipment. The County Medical Officer of Health has suggested that the vehicle should be used as a mobile welfare centre for visiting remote parts of the county that cannot easily be served by the existing mobile unit, a van that merely conveys personnel and equipment to village halls and other premises at which temporary welfare centres are established. The pharmacy, used as a self-contained clinic, will be able to deal with mothers and children in places where there is no suitable hall. The mothers and their babies will be able to be examined and treated in the pharmacy itself.

PARLIAMENTARY NEWS

Release of Doctors.—The Secretary of State for War (Mr. Lawson) said on August 24 that the release of doctors was being accelerated in accordance with the quicker release of the Army as a whole. Some delay in the release of certain categories of medical specialists would occur owing to the existing shortage and difficulty in finding replacements in these special categories.

More Soap for London.—In reply to questions on August 22, the Minister of Food (Sir B. Smith) said the shortage of soap in London and other areas, which arose as a result of the rapid return of evacuees, had been aggravated recently by an influx of visitors. He was making inquiries in regard to both supply and distribution. In the meantime considerably increased supplies were being allocated to the London area, but it would be some little time before the position became much easier.

National Health.—The following abstract is taken from the King's Speech, made to the members of the House of Commons on Wednesday, August 15: "You will be asked to approve measures to provide a comprehensive scheme of insurance against industrial injuries, to extend and improve the existing scheme of social insurance and to establish a national health service."

On Friday, August 17, MR. GREENWOOD (Lord Privy Seal) said: With regard to social insurance and health, the first duty was to proceed with the national insurance scheme and follow that up with the health plan. That was imposed upon the Government, quite apart from logic, by the terrible muddle in which the health plan was left by the late Minister of Health. The White Paper on the health services, although not going so far as the Labour Party would have liked, was generally accepted by the House, yet after an inordinate delay it transpired that behind the backs of everybody else Mr. Willink opened discussions with the British Medical Association.

MR. WILLINK said that the whole of those discussions were carried out by him and by the then Secretary of State for Scotland, who was a member of the Labour Party.

MR. GREENWOOD, continuing, said that the late Government were not committed to any action when the secret discussions were concluded. The present Government could not start now where the negotiations finished. They must go back to the beginning, back to the White Paper, and that was what the Minister of Health proposed

to do. It would be a difficult task, made all the more difficult by the unnecessary concessions which were made by Mr. Willink.

A good deal of work had already been done on the social insurance scheme. The Minister of National Insurance was pressing on with the further details of the measure, which was necessarily very complicated. It might look to be one of the longest measures that the House of Commons had ever seen. But it would be completed fairly early, and it was hoped that it would be ready and in the hands of members when they resumed next year. It would be seen to be a Bill of character and importance and of a complex nature which demanded a good deal of care in its drafting.

Research on Atomic Energy.—Sir Wavell Wakefield asked the Prime Minister on August 23 if he was in a position to state what machinery, organisation or arrangement is proposed for the scientific development for peace-time use of the knowledge obtained in the evolution of the atomic bomb; and the extent of the finance and scientific manpower to be made available for this purpose. The Prime Minister (Mr. Attlee): Research on the possible use of atomic energy will continue for the present to be carried on under the existing organisation known as the Tube Alloys Directorate of the Department of Scientific and Industrial Research to which reference has been made in the published official statements. The resources made available will depend on the programme of research adopted, and this is now being considered.

Industrial Research for Export.—Sir Patrick Hannon asked the Lord President of the Council on August 22 if he would present a White Paper to the House embodying a general outline of the measures adopted or contemplated for the prosecution of scientific research, with special reference to investigation, with the object of the restoration of the export trade. The Lord President of the Council (Mr. Herbert Morrison), in reply, said the Government was fully aware of the need for promoting the application of science in industry. The attention of the export industries had already been drawn to the facilities offered by the Department of Scientific and Industrial Research. He did not propose to publish a White Paper at that stage, but the hon. Member could rest assured that Parliament would be kept informed of any developments that occurred in the Government's policy.

LEGAL REPORTS

Theft of Cocaine.—At Highgate Sessions recently, Alfred John D. Smith, described as a chemist's assistant, and employed at East Finchley, London, N., appeared on a summons for having in his possession a packet of cocaine hydrochloride. It was alleged, too, that Smith had taken a bottle of industrial methylated spirit from the shop. Mr. Campbell, solicitor for the prosecution, said Smith was employed as a dispenser. On July 25 he was suspected of having taken something and his employer telephoned the police. Detective-Sergeant Gingell stopped Smith in the High Road, East Finchley, and found a bottle of industrial methylated spirit in his possession. He arrested Smith and on the way to the police station saw him throw away an envelope which, on investigation, proved to contain cocaine hydrochloride. For the defence Mr. Vyvyan Wells said the actual value of the goods stolen amounted to about 14s. Smith suffered from bad teeth and found that rubbing the gum with cocaine relieved the pain. He did not take it for any trading purpose. Smith was fined £8.

Food Prosecution Dismissed.—Burnley (Lancs) magistrates on August 21 dismissed a summons against Marshall's Food Products, Ltd., Coventry House, South Place, Moorgate, London, E.C., for a breach of the Food and Drugs Act, 1938. Mr. H. K. Foers, who prosecuted, said that the firm was summoned in respect of a false warranty to Wm. E. Carrington, Colne Road, Burnley, regarding baking powder supplied to Carrington in which there was only 6.9 per cent. of available carbon dioxide instead of at least 8 per cent. Samples had been obtained by inspectors from Carrington, against whom a summons under the Act had been dismissed at a previous court. Carrington relying on the warranty, Mr. Foers said that it had been his duty to summon the firm because the warranty was false. For the defence it was submitted that the warranty was accurate at the time it was dispatched. The powder was manufactured in October 1944, and sent to Mr. Carrington in November. When it was made, a sample from the same "batch" was taken by the firm and put in storage on their own shelves under normal conditions. On May 25 they learnt of the complaint about the baking powder in Mr. Carrington's shop and had their sample analysed. It showed 8.8 per cent. available carbon dioxide. Evidence was given by employees of the firm, and Dr. J. H.

Hamman, public analyst, who said that he had examined part of the sample from Mr. Carrington's shop, and from the residual ash was able to calculate that the components had been made to yield 11.3 per cent. carbon dioxide.

"Stalls" are not Shops.—When two adjourned summonses against Thomas P. Whittle, Birch Lane, Manchester, and Robert B. Diggins, Greame Street, Manchester, were before the Bolton (Lancs) borough magistrates on August 23, the abandonment of a contemplated appeal to the High Court against a decision of the magistrates last February was mentioned. Representing the Pharmaceutical Society, Mr. A. F. Greenhalgh explained that the proceedings were for the alleged breach of the Pharmacy and Medicines Act, 1901, by selling an article consisting of a substance recommended as medicine, "the sale not being effected at a shop." There were originally three defendants, all stall-holders on the Ashburner Street, Bolton, market, and on the magistrates convicting a local man named Foster, the defending solicitor asked for the cases of Whittle and Diggins to be adjourned until that day to give their trade organisation an opportunity of considering the question of testing, in the High Court, the correctness of the magistrates' decision against Foster. That proposal had not been proceeded with. Whittle was summoned in respect of a remedy called "India brandee" and Diggins for the selling of a vapour rub, for skin ailments. Pleading guilty on defendants' behalf, Mr. E. Fielding said they had been advised that their stalls were "shops" within the meaning of the Act. Defendants had considered the matter, and now did not propose to challenge the decision. Defendants would cease to offend. The Bench imposed the nominal fine of £1, each defendant also to pay £5 5s. advocate's fee.

INQUEST

"Misadventure" at Dentist's.—A verdict of "misadventure" was returned by the Manchester County Coroner on August 14 on Peter Brendan Nolan, aged fifteen, of Salisbury Road, Davyhulme, who met his death in a dentist's chair at the surgery where he was employed as apprentice dental mechanic. His employer, who found the boy dead in the chair when he returned from lunch on August 10, said the lad, who was very keen on dentistry, had apparently tried to put himself under an anæsthetic.

TOPICAL REFLECTIONS

London Schools of Pharmacy

The prospective closing of the London College of Pharmacy (p. 201) will be regretted by pharmacists in many parts of the world. Pharmaceutical education owes much to the men and women who conducted the various "proprietary" schools of pharmacy in London, either as principals or as assistants. From your Educational Number for 1915 I learn that, in addition to other institutions where pharmaceutical subjects were taught, there were ten or four such schools, including the one now to be closed. As a matter of fact, courses of preparation for the examinations of the Pharmaceutical Society are nearly as old as the Society; but this is too large a subject to discuss here. Some of the teachers referred to supplemented their task of lecturing and of directing studies with research the outcome of which appeared in British Pharmaceutical Conference monographs; and some distinguished themselves, even or later, in other spheres. The names of Arthur Pearson Luff and John Mutter readily come to mind in this connexion. In the early years of these schools their success in coaching students for the Minor Examination of the Pharmaceutical Society was so remarkable that the Council of the Society was almost compelled in self-defence to raise its demands for a certificate of qualification, apart from any consideration of general educational standards. A crowd and endowed with a good working knowledge of human nature, the directors of these schools had a sound grasp of the principles of scholastic training.

Basic Knowledge

What is "a basic knowledge"? The question arises on reading these words in the draft outline of a syllabus for training women to serve as assistants in pharmacies (p. 200). If there will be a steady demand for the help of unqualified women in chemists' shops during the next few years—and I am not aware that there will—can they be satisfactorily trained, on the lines recommended in the syllabus, in the time allowed? The suggested "class course" is to occupy thirty-six hours a week: in a five-day week this means an average of seven hours a day. An additional eight hours "free" be spent weekly in what is pompously described as "an employer's establishment." One-third of the thirty-six hours is allotted to a subject entitled "commodities," the curriculum of which extends to

about a column of your minion type; the remaining number of hours is divided in various proportions among five other groups of requirements. From the inclusion of such subjects as "vulgar and decimal fractions" it may be inferred that the initial mental outfit of the students is not expected to be of a high standard. How, then, is it possible to coach them during the prescribed period in, say, "organisation and methods of buying" or "financial control"? I submit that, as it stands, this syllabus is unworkable for the intended purpose, and that the "basic" knowledge it aims at imparting will prove to be of a kind that most people would regard as sub-basic. The note that "Domestic Chemicals and Chemist Sundries" section of training is "not designed for and will not provide any training in the handling of drugs" is quite superfluous.

Much Fear—No Danger

Your editorial article "Universities and Industries" (p. 197) should effectually dispose of any doubt that may have been aroused by the strange pronouncement of the Association of University Teachers. A story that I heard many years ago seems appropriate. During a gale at sea a ship's passenger waylaid the captain with the nervous inquiry, "Is there any fear?" Promptly came the gruff reply, "A great deal of fear—but no danger." This bogy that the Association professes to have discovered is not a very impressive one, and the statement of last year's Nuffield College Conference has, so to speak, quelled it in advance. Gifts from an industrial concern or organisation may properly be earmarked for one or more subjects of research in a university. How that research shall be carried out is the affair of the staff undertaking it; and if a subject proposed is unsuitable for a particular staff, the endowment offered will be declined with thanks. Boards of directors in our leading industries are not observably deficient in common sense, nor are they so lacking in the rudiments of education as to be unaware of the difference between fundamental research and applied research; hence the difficulty postulated by the Association need never arise. And between university laboratories and those of the individual firms or companies that can afford them there is the "buffer" territory of research associations and technical colleges capable of undertaking the investigations.

Xrayser

TRADE NOTES

A New Toothbrush.—Robert A. Rooney & Sons, London, E.17, are marketing Quiz "teethbrush," for which they anticipate a big demand.

An Italian Hospital.—The Genoa Hospital is featured this week in the advertisement of Carus of Darwen, makers of surgical dressings.

Herbal Tea.—Campbell Laboratories, 5 and 6 Clipstone Street, London, W.1, announce a bonus parcel for display of their Cloister herbal tea.

A New Antiseptic.—The wholesale and export department of Boots Pure Drug Co., Ltd., Nottingham, give details of their new antiseptic, Flavazole, and invite inquiries.

Dental Training.—The Royal Dental Hospital of London, Leicester Square, London, W.C.2, announce details of admission of students for the B.D.S. degree and the L.D.S. diploma.

A New Barrier Cream.—Clay & Abraham, Ltd., 87 Bold Street, Liverpool, 1, have placed on the market a general purposes barrier cream under the title Dermoclean. It is packed in glass jars with metal screw tops.

Veterinary Welfare.—The advertisement in this week's issue of Bell & Sons, Ltd., veterinary chemists, Liverpool, 13, suggests that chemists will find it profitable to introduce to pet owners their blood salts for dogs and cat powders.

Torch Brand Malt and Oil Reduced.—Allen & Hanburys, Ltd., announce that as from September 1 the new retail prices of Torch Brand Malt and Oil will be as follows: Malt extract with cod-liver oil, 1 lb., 1s. 11½d.; 2 lb., 3s. 9½d. Malt extract with cod-liver oil, iron and calcium, 1 lb., 2s. 6d.; 2 lb., 4s. 10d.

Training for Pharmacy.—The University of Manchester School of Pharmacy give details of forthcoming courses for the Intermediate and Qualifying examinations for pharmaceutical chemists and chemists and druggists. Particulars are also included of special courses and for degree courses in pharmacy. Inquiries should be addressed to the Registrar.

War-time Damage Revealed.—The chairman's statement to shareholders at the annual meeting of Evans Sons Lescher & Webb, Ltd., gave details of damage suffered

by the company's property owing to enemy action during the war. The major part of the Liverpool premises in which goods were prepared for export was destroyed at the end of 1940, and on the following night most of the factory of the company subsidiary, Charles Midgley, Ltd., was destroyed. The latter company was on able to continue by reason of help given by other manufacturers. In 1941 the company's Liverpool offices and remaining workshops, as well as most of the warehouses were completely destroyed by high explosive and incendiary bombs, and other damage less extensive in character was suffered at other times by the pharmaceutical laboratories in Liverpool, the London office and workshops and the Evans Biological Institute. Nevertheless the company made its full contribution to the war effort, and in 1944 sales reached a new high record.

Business Changes

MR. WILLIAM D. BRYAN, founder of the business of Bryco Sales Agencies, which was last year transferred into a limited company, trading as Don Bryan, Ltd., wholesale chemists, Bryco House, Swansea and of which company Mr. Bryan was appointed director and manager, has resigned from the company. Mr. Bryan recommencing business on his own account as a manufacturers' agent, with temporary offices at "Beggars Roost," Clyne Road, Mayals, Swansea.

Proprietary Articles Trade Association

Alterations to Protected List.—*Buffham's Preparations.* Resinol ointment, 4-oz. size, 5 43s.; tax per dozen, 7s. 2d.; i.r.p., 5s. 2d. Small size, 3s., 27s.; tax per dozen, 4s. 6d. i.r.p., 3s. 4½d.

The Cannon Rubber Manufacturers, Ltd. The "Modern" babies' feeding-bottle teat, 6d.; 40 gross. Exempt from tax.

Dymuth, Ltd. Dymuth tablets and powder 6½d.; 4s. 6d. doz. Dymuth powder, 1s. 4½d. doz. Ditto, 2s. 9d.; 22s. 6d. doz. Exempt from tax.

Deletion.—*Allied Laboratories, Ltd.* Myc tablets.

COMING EVENTS

Sunday, September 9

MANCHESTER PHARMACEUTICAL ASSOCIATION
Ramble to Millers' Dale to Grindleford
Meet Central Station, 8.40 a.m. Book Millers' Dale return.

COMPANY NEWS

O. STEWART TAGGETT, LTD. (P.C.).—Capital £100. Chemists, etc. Theodore O. Taggett and Ivy G. S. Taggett, directors. Solicitors: Lawrence, Williams & Co., Cannon Court, Corn Street, Bristol.

CHRYSSEX, LTD. (P.C.).—Capital £300. Processors of natural or synthetic fibrous substances, chemical merchants, etc. W. C. Jones and F. W. Rycroft, directors. R.O.: Milland Mills, Lindley, Huddersfield.

SOUTHDOWN CHEMICAL CO., LTD. (P.C.).—Capital £500. Manufacturers of and dealers in chemicals, drugs, disinfectants, etc. Directors to be appointed. R.O.: 3 Myers Buildings, Holborn, London, E.C.1.

JARNETT HAYWARD, LTD. (P.C.).—Capital £1,000. Manufacturers, importers and exporters of and dealers in chemicals, foodstuffs, etc. Directors to be appointed. R.O.: 44 Beddington Gardens, Wallington.

PARSONS & HAPPOLD, LTD.—Capital £1,000. Retail and wholesale chemists, druggists, dealers in toilet requisites and proprietary articles, etc. Carl Happold, M.P.S., and W. B. North, M.P.S., directors.

PERMA COSMETICS Co., LTD. (P.C.).—Capital £1,000. Manufacturers of and dealers in hairdressing sundries, etc. James G. Wallace and David J. Neave, directors. R.O.: 9 Bon Accord Square, Aberdeen.

BRONDEX CHEMICALS, LTD. (P.C.).—Capital £1,000. To acquire the business carried on by Joseph A. Sparkes as Bronco Chemicals, 36 Cromwell Road, Newport, Mon. Joseph A. Sparkes and William Russell, directors. R.O.: As above.

WILK PARKINSON & SON, LTD. (P.C.).—Capital £1,000. To acquire the business of wholesale and retail chemist lately carried on by Thomas Parkinson at Dawson Street, Boston. Thomas J. Tomlinson and Joseph Vittle, directors. R.O.: As above.

GOLDEN TONE PRODUCTS, LTD. (P.C.).—Capital £3,000. Wholesale and retail dealers in proprietary medicines, chemicals, toilet requisites, etc. Alexander Downing and Gladys M. Downing, 130 Upper Dover Street, Sheffield, 3, directors.

A. & R. ALLENSON'S, LTD. (P.C.).—Capital £500. Manufacturers of petroleum products, vegetable oils, soaps, disinfectants, paints, fertilisers, etc. Richard N. and Richard H. Allenby, directors. R.O.: 11 Mawson's Chambers, 28 Deansgate, Manchester.

HARRISON & Co. (HARCOL PRODUCTS), LTD. (P.C.).—Capital £500. To acquire a

business of dealers in pharmaceutical products carried on at St. Annes as Harrison & Co. Mrs. Esther Harrison and Gabriel H. Harrison, 10A The Square, St. Annes, directors.

FORSET & Co. (EXPORT), LTD. (P.C.).—Capital £1,000. Exporters and importers of merchandise, foodstuffs, chemicals, toilet goods, perfumes, plastics, oils, etc. Directors to be appointed. Solicitors: Stanley Jarrett & Co., 17 Shaftesbury Avenue, London, W.1.

FEARLESS BRUSH Co., LTD. (P.C.).—Capital £1,000. To acquire the business of brush makers carried on by S. M. and P. Kirk, 16A Iliffe Yard, London, S.E.17. Sidney M. Kirk, Percy Kirk and Horace Arnold, directors. R.O.: As above.

SALIG, LTD. (P.C.).—Capital £3,000. Financiers, manufacturers of and dealers in machinery, commodities, distillation and refinery processes, manufacturers of and dealers in chemical products, plastics, etc. Directors to be appointed. Solicitors: Denton Hall & Burgin, W.C.2.

SOUTHALLS (BIRMINGHAM), LTD.—Interim dividend of 10 per cent. for the year 1945. Corresponding figure for last year was $7\frac{1}{2}$ per cent.

BEECHAM GROUP, LTD.—Directors have declared a first interim dividend of $7\frac{1}{2}$ per cent. on deferred stock in respect of the year ending March 31, 1946.

COLLEGE LABORATORIES, LTD., Bristol.—Mr. John Floyd has been appointed advertising manager and Mr. A. Phillips has been placed in charge of the export department.

STEPHEN SMITH & Co., LTD.—Directors' report for the year ended April 30, 1945, states that a dividend of 8 per cent. has been paid on the preference shares for the year, but no interim dividend has been paid on the ordinary shares. The directors now recommend the payment of a dividend on the ordinary shares of 5 per cent. for the year, less income tax, payable on September 1, after the payment of which there will be £3,585 to carry forward. The staff contingency reserve has been credited with interest at 3 per cent. out of this year's profit, and, after payment of pensions and grants, now amounts to £19,750. Brevet Lieut-Colonel Frederick F. MacCabe retires and the directors recommend his re-election to the Board.

ENEMY-OWNED PATENTS

THE council of the Chartered Institute of Patent Agents has issued a memorandum giving its recommendations on the subject of enemy-owned patents and on applications for patents made by enemy nationals. Consideration has also been given to the possible effects on British industry if a moratorium is granted in favour of the citizens of allied and neutral countries to enable applications for patents to be filed in Britain on the basis of applications made in the home country during the war, notwithstanding the fact that the normal period of twelve months allowed under the International Convention for the Protection of Industrial Property may have expired.

No Separate Action by Britain

The council recommends that no separate action should be taken on behalf of this country whereby enemy nationals, after the war, would be denied Convention rights arising on basic applications filed subsequent to the termination of hostilities, or filed at such a date that the ordinary period of twelve months allowed for a Convention claim will not have expired when the application in the United Kingdom is filed. The basis of the International Convention, the council points out, is reciprocity, and any one-sided arrangement forced on enemy nationals would appear contrary to the spirit of the Convention. This country, having ratified the Convention, is bound by its conditions unless it withdraws from adherence to the terms of the convention. Any remedy, therefore, affecting ordinary Convention applications should be sought along the lines of a revision of the Convention by the contracting states.

The council makes a distinction, however, between denial of ordinary Convention rights and action to withhold from enemy nationals the benefits of any moratorium that may be granted in Britain, such as was granted under Article 307 of the peace treaty of 1919. The following recommendations are formulated:—

That British applications of enemy subjects not granted before the outbreak of war should be considered void, but:

That where any British "person" is interested by way of licence or agreement in such a pending application of enemy origin, and can establish that interest to the satisfaction of the Comptroller, the patent (if granted) shall be granted to the Custodian in trust for such British "person," subject to specified provisions as to patents that have been kept in force by British licensees.

That no extensions for the filing of applications by enemies beyond the ordinary convention period shall be allowed.

That no moratorium for recovering patents and other industrial property as was granted under Article 307 of the treaty of 1919 (which permitted the payment of renewal fees and the performance of other formalities for the restoration of industrial property rights existing on August 1914, within one year from the date of the treaty without any penalty whatever) be granted after the present war to nationals; also that any assignment of industrial property to allies or neutrals subsequent to the entry of the enemy state in the war shall not be recognised as conferring a right of restoration of such property. A moratorium is granted by the peace treaty to allied states and neutrals.

The recommendations are subject to concerted action by the allied countries, a point that is regarded as important, might prove a great disadvantage to this country withheld privileges from subjects when allied countries enjoy those privileges. For example, if (the Boykin Bill) at present before the United States House of Representatives were to become law in its present form, priority period for filing applications in that country would be extended in favour of citizens of enemy countries after the war. Those countries granted reciprocity. The council further recommended:—

That where enemy-owned British patents have been kept in force by a British licensee, whether the latter holds a licence from the patentee or as an emergency grant, the British patents should be vested in the Custodian of Enemy Property for the benefit of the licensee; where the licence is exclusive, the Custodian, upon an application to the licensee, may assign the patent to the licensee under a covenant to the Custodian the royalties agreed licence, so that the licensee will be in a position to proceed against infringers.

If a moratorium is granted permitting the filing of applications in this country on applications filed during the war in allied, neutral, or "occupied" countries, it is thought that two provisions of the British Patent Acts, 1907 to 1942, react adversely on British manufacturers. The provisions are those relating to the dating of patents under Section 17, for the purpose of fixing their duration, and the provision in Section 27 that no step shall be taken to obtain relief for an alleged abuse of monopoly rights can be taken until five years from the sealing of the patent.

Section 17, the period of sixteen years which is the life of the patent, commencing on the date on which the complete specification is filed in the Patent Office in this country. An enemy-owned patent which had upwards of five years in which to file his invention in that country under a moratorium permitting filing here, he would be able to file a complete specification in this country, and priority to other applicants, dating from the filing date in the foreign country. The date of the patent granted in this country might therefore be as much as two years from the priority date of the patent. To meet this position the Council recommends:—

It shall be a condition of any moratorium which permits the filing of applications in the United Kingdom under International Convention, outside the normal period, that the term of any patent ultimately granted in respect of any such application shall run shall, for the purposes of Section 17 of the Act, be deemed to be the date on which the complete specification is normally have been filed under the Convention, that is to say, twelve months from the date of application for the basic

to meet the difficulty that a foreign manufacturer may, under a moratorium, secure a patent in the U.K. dated back to 1938, and which will be immune from attack under the provisions of Monopoly Rights Section if a British manufacturer is refused a patent until at least 1948, the Council recommends:—

It shall be a condition of the granting of a moratorium permitting the claiming of a Convention date for an application made after the war (or of granting an extension of the Emergency Act) that Section 27 (2) of the principal Act shall apply as a ground for application under that Section at any time after the sealing of the British patent.

Summary of Recommendations

The Council's recommendations may be summarised as follows:—

(1) No action to deny Convention date after the war.

(2) Denial of any moratorium to enemy-owned patents of British applications pending at the outbreak of war which should remain subject to the exception discussed above.

(3) Denial of any moratorium to enemy-owned patents of lapsed British patents.

(4) No extension beyond ordinary

term for enemies to file Convention applications here.

(5) Enemy-owned British patents retained in force by British licensees to be taken over by the Custodian of Enemy Property, with power to assign patents to exclusive licensees.

(6) Dating of patents filed under an extended Convention period allowed by moratorium to be, for purposes of Section 17 (Term of Patent), twelve months from date of basic application.

(7) Section 27 (2) (d) (Abuse of Monopolies) to apply after the date of sealing of British patent where delayed Convention filing is granted under a moratorium or Emergency Act.

N.P.U. CHAIRMAN'S VICTORY MESSAGE

As chairman of the National Pharmaceutical Union, it is my privilege to address a victory message to the members of the Union throughout the country. We are profoundly grateful that once again there is "Peace on Earth," and that victory has finally crowned the efforts of our leaders and our Forces.

The National Pharmaceutical Union has performed a heavy task during the war years, and the position of the independent retailer has only been maintained by exercising constant vigilance and, when our rights were attacked, taking immediate and vigorous action. The post-war period will be a difficult one, and the whole-hearted co-operation of every member will be essential if chemists are to keep their rightful place in the community. All should share equally in the "Fruit of Victory," and it is our responsibility to do our utmost to see that this is the position in pharmacy.

Many of our fellow-chemists, because of the war, will be in reduced and difficult circumstances. The War Distress and the War Aid Funds will render assistance where it is possible for them so to do; but it is the individual chemist who can, if he will work unselfishly and act with real idealism, assist those whose position and future have been jeopardised by the war. Therefore, I appeal for the real friendship and the enthusiastic loyalty of every member, and I can say with assurance that the N.P.U. will continue to work for pharmacy, for the pharmacist, in the pharmacy, as it has done for twenty-five years.

E. A. BROCKLEHURST,
Chairman.

PENICILLIN FOR THE RETAIL PHARMACIST- I

by Reginald J. Jeram

(Senior Pharmacist, St. Mary's Hospital, Portsmouth)

HAVING dwelt on the properties of penicillin and the choice of suitable apparatus in the last article (*C. & D.*, August 25, p. 192), we are now in a position to consider the compounding of the drug. Certain general working principles cannot be over-emphasised. Two of these will bear repetition at this stage, i.e., complete aseptic procedure and freshness of the preparations supplied. Preparations made at the present time may be divided into two groups with respect to the method of administration, namely, those intended for local administration, including creams, insufflations, dusting powders, sprays, drops and pastilles, and those for systemic administration, mainly injections. The strength of all preparations is expressed in terms of Oxford units.

Penicillin Creams

Penicillin creams form a large proportion of the preparations now being called for, and therefore the greater part of this article has been devoted to them. The bases of these creams need careful attention as regards sterilisation and pH value, the latter being liable to alter with the temperature and time of sterilisation, when the largely-used Lanette wax bases are employed. The following formulas will give an idea of the bases which have been used:—

Lanette wax	..	..	..	24 gm.
Aqua. dest.	..	..	..	100 gm.
Lanette wax	..	..	..	30
Aqua. dest. ad	..	..	..	100
Lanette wax	..	..	..	12 gm.
Ol. arachis	..	..	..	25 gm.
Aqua. dest.	..	..	..	55 gm.
Acid. stearic	..	..	..	1,200 gr.
Liq. ammon. fort.	..	..	..	m. 100
Aq. dest. ad	..	..	..	16 oz.

Sometimes a proportion of soft paraffin is incorporated when the plain Lanette wax bases are used and, of course, No. 4 will need saponification. During this discussion it will be assumed that the Lanette wax type of base is used. These bases may be simply prepared as follows: The wax is shredded and heated to melting point over a water bath, then the water previously heated to about the same temperature is added and incorporated. If soft paraffin or oil is used this must be mixed with the melted wax prior to adding the water. The base needs gentle stirring

whilst cooling; vigorous stirring should be avoided. Further procedure is as follows:—

No. 1.—The required quantity of base, the given number of creams to be made, is weighed into a suitable container, which is then sealed by a fixed covering of cellophane. The container is then placed in an autoclave and sterilised for 20–30 min. at 10 lb. pressure. When cooling, the base should be stirred by means of a glass rod having a spatulate end, the rod having been introduced through the cellophane, which is made tight by fixing round the rod with a string or silk. When cold, the appropriate quantity of penicillin dissolved in c.c.s of sterile water or saline is injected through the cellophane by means of a sterile syringe, and finally mixed in base with the rod. The container is then placed in a hot-air oven, in which the cream is finally distributed. The cream may be either sterilised at the same time as the base, or subjected to dry sterilisation in a hot-air oven. Preferably, glass jars with straight sides and aluminium lids are used. If aluminium lids are used it will be advisable to protect the inside of the lid prior to autoclaving to prevent rusting. During the transfer of the cream to jars every effort must be made to work under some kind of screen to exclude dust and breath. The hands must be well scrubbed and disinfected, if sterile rubber gloves are not available.

Method of Procedure

No. 2.—A number of the jars desired are taken and a hole (just large enough to allow a fine hypodermic needle to be inserted) is bored in the periphery of the lid, and the jars then sterilised. Thin washers are cut exactly to fit into the hole (these can be cut from sheet rubber or used rubber bandages) and sterilised by boiling with a solution of an antiseptic, finally boiling and washing with sterile water. The base is weighed into the container, which are then covered with cellophane, the lids containing the treated washers are screwed on. The cellophane is now torn at the puncture and the rims sealed with waterproof paint. The puncture in the lid is treated similarly. They are now autoclaved as in the previous method, and allowed to cool gradually with occasional agitation. When a cream is required, a container is two-thirds immersed in water maintained at 70° C. in a

bath. Agitate from time to time and after a few minutes the contents reach a temperature of 62°–65° C. and become fluid. The aperture is then uncovered and the penicillin solution injected and mixed by gentle shaking, after which the aperture is again sealed and the cream rapidly cooled. As the sterilised base may be kept some time before use, it is advisable to add 1.5–2 per cent. of Phenoxetol before sterilising, as an antiseptic which is not injurious to penicillin.

No. 3.—Being conscious of the difficulties encountered in retail business, the writer has carried out the following investigations, and presents the results as a suggested method of small-scale manufacture. Similar jars are taken and the base weighed in as before; the tops are then covered with double cellophane, leaving a good margin overlapping. The lids are then screwed on tightly, and the containers placed in a hot-air oven, which is maintained at 110–115° C. for half an hour. They are then allowed to cool, agitating occasionally until the base is just fluid as in the last method. Whilst holding the overlapping cellophane in position the lid is removed, leaving the container sealed by the cellophane. The

penicillin solution is then injected through the covering and incorporated by shaking. The intention in this method is to make each container its own autoclave, the vaporised water turned into superheated steam sterilising the base as in an autoclave. Again the addition of Phenoxetol is recommended as antiseptic, and final sealing by means of adhesive against contamination.

Details of Investigations

Batch of Lanette Wax No. 1.

Base 24 gm. in 100 gm. water,	
pH value	8.0
Sterilised in hot-air oven at 110° C. for 30 min. approx.	pH 7.5
Sterilised in autoclave at 115° C. for 30 min. approx. ..	pH 7.0–7.5
Incubated on nutrient agar base, no bacterial colonies	

Batch of Lanette Wax No. 2

Base as before	pH 8.0
Hot-air oven as before ..	pH 8.0
Autoclaved as before ..	pH 7.0–7.5
Incubated as before	no bacterial colonies

It is now possible to obtain containers holding the sterile base, ready for the addition of the penicillin.

LONDON PHARMACEUTICAL COMMITTEE

The following paragraphs are taken from the annual report of the London Pharmaceutical Committee for the year July 1, 1944–June 30, 1945:—

Comparative Figures for 1935 and 1944:—

	1935	1944
1. Total number of prescriptions	8,561,492	5,789,746
2. Cost of ingredients ..	£124,194	£152,960
3. Cost of dispensing fees ..	£154,839	£126,564
4. Total cost of prescriptions	£279,033	£279,524
5. Average cost of ingredients in pence ..	3.48d.	6.34d.
6. Average cost of dispensing fees in pence ..	4.34d.	5.25d.
7. Average total cost per prescription in pence ..	7.82d.	11.59d.
8. Mean number of persons on list	1,765,402	1,368,536
9. Average number of prescriptions per person ..	4.85	4.23
10. Average cost per person in pence	37.93d.	49.00d.

While the total value of accounts (£279,000) was approximately the same for both these years, it will be observed that in 1944 there was a decrease of 2½ millions in the number of prescriptions dispensed. It will also be noted that the division of cost between fees and ingredients is roughly the same for both years, but owing to war conditions, the values have been reversed in 1944, the higher figure representing cost of ingredients instead of fees.

Closing Hour and Rota Service

The established rotas have been reviewed at various periods throughout the year and notices for exhibition have been issued to the chemists concerned. Revision of several rotas has been necessary owing to lack of qualified staff, damage to shops by enemy action or resignations from the panel. With a view to maintaining the present early closing hour the Committee desires to point out that in each district, one or more chemists must remain open until 7 p.m. by means of a rota or otherwise, and to emphasise that a notice indicating particulars of the service provided must be exhibited. The necessity for the exhibition of a notice applies equally to the service

provided for Sundays and Bank Holidays and to any other local arrangements.

The Committee has carefully examined the monthly reports received from the Central Checking Bureau and any discrepancies in pricing have been noted and rectified without delay. The average margin of error in pricing for the year was + 0.08 per cent. With regard to ambiguous prescriptions, the Committee has noted that certain chemists have failed to indicate on the prescription what was actually supplied. In their own interests, therefore, chemists should make certain that brief notes are given on such scripts, in order to ensure accurate pricing and proper payment for their work.

The Committee again desires to thank London chemist contractors for the generous support given to the 1944 appeal for contributions under "the penny in the pound scheme." As a result of this appeal, cheques for £488 10s. each were sent to the N.P.U. and the Pharmaceutical Society. Letters have been received from the secretaries of these bodies expressing thanks for the generous sum contributed to their respective War Funds by London panel chemists. The total sum paid over for the two years amounted to £1,867. The Committee anticipates that the response to their final appeal for the current year will prove successful and so raise the total amount contributed by London chemists.

SCOTTISH HEALTH REPORT

THE Summary Report by the Department of Health for Scotland for the year ended June 30, 1945, contains, *inter alia*, the following paragraphs of interest to chemists:—

MEDICINAL PLANT COLLECTION.—By arrangement with the Ministry of Supply the Department has undertaken, since 1942, to organise the collection of certain plants . . . Last summer, as previously, the principal collection was of rose-hips and the amount gathered, 77 tons, was a record. . . . In a few areas leaves and seeds of foxglove were gathered for the manufacture of digitalin.

SCIENTIFIC ADVISORY COMMITTEE.—Reports by subcommittees were published during the year on "Sulphonamides in the Treatment of Meningococcal Meningitis" and "Freezing Point (Hortvet) Test of Milk." . . . A small-scale field trial has been arranged to test the efficacy against midges of repellents developed during the war for use against flies and insects. . . . In the field of infectious diseases, work is

All changes which have taken place in the London panel list of chemists have been regularly recorded by the Pharmaceutical Committee, although no official list has been issued by the Insurance Committee since 1939. At March 31, 1945, there were 1,463 shops on the list (981 inside and 481 outside the County). Of this number, seven were conducted by unqualified persons and fifteen were manufacturers of spinal jackets and splints. During the period September 1939 to March 1945, 352 shops inside and seventy-one outside the County have ceased to provide a dispensing service owing to war conditions, lack of qualified staff and damage by enemy action.

The London County Pharmaceutical War Committee has continued to advise the Central Pharmaceutical War Committee regarding the deferment of pharmacists and dispensers in the County. The Committee has also considered the case of women drug hands and has issued certificates where appropriate for their retention in pharmacy. The war in Europe having ended officially on May 9, 1945, the Committee had hoped that the serious situation regarding staff deficiencies would soon improve. Unfortunately, it is realised that the pharmaceutical service is being provided under most difficult circumstances through lack of the necessary qualified staff particularly pharmacists now urgently required as managers.

proceeding on a survey of diphtheria in the inoculated and the uninoculated, the comparative values of the serums used in the prevention of measles, and the testing of the value of penicillin in the treatment of lobar pneumonia, and certain other serious infections.

HEALTH EDUCATION.—The Department in co-operation with the Ministry of Information, was responsible for press poster, and other publicity on a national scale. . . . A film dealing with the Scottish maternity services has been made.

PHARMACISTS AND OPTICIANS.—The professional committees of pharmacists and opticians continued to advise on manpower questions arising in the civilian services concerned. Pharmacists and opticians are both subject to recruitment for service otherwise than in their professional capacity, and particularly as regards pharmacists difficulties were experienced at times in certain areas in keeping civilian services in operation at an adequate level.

PERSONALITIES

MAJOR DONALD BRUCE, M.P., has been appointed Parliamentary Private Secretary to the Minister of Health.

MRS. Y. R. C. PATERSON has been appointed private secretary to the Parliamentary Secretary to the Ministry of Health (Alderman C. W. Key, M.P.)

MR. S. C. SPRINGETT, chairman of Hanson Agencies (Proprietaries), Ltd., Brendon Road, Croydon, is shortly leaving on a visit to Canada and the United States America.

LIEUTENANT-COLONEL L. J. EDWARDS, P., and **MRS. B. A. CASTLE, M.P.**, have been appointed Parliamentary Private Secretaries to the President of the Board of Trade.

MR. ROY KENDAL, 553 Bolton Road, Blackburn, who has just passed the B.Sc. Chemistry examination of London University, is taking up an appointment with Dak, Ltd., Harrow.

MISS V. W. BURRELL, 1 South Close, Wyners Lane, Pinner, Middlesex, has been elected to fill the newly-created office of Registrar of the National Association of Women Pharmacists.

COUNCILLOR EWART WOOLLEY, J.P. (Pal, Ltd.), has resigned his commission in the R.N.V.R., and has resumed his civilian work. As chairman of the Liberal Party, Blackburn, he was welcomed back home on August 22.

DEATHS

ALLEN.—Recently, Mr. Donald N. Allen, 119gdale, Thornton-le-Fylde. Mr. Allen was labour manager to Imperial Chemical Industries, Ltd.

BELLAMY.—Councillor John Tom Bellamy, Ph.C., whose death was announced in last week's issue (p. 190), was a former Mayor of Chelmsford. Mr. Bellamy had been ill for some time. He had lived in Chelmsford for thirty-eight years, and had been a member of the Town Council for twenty years. He held Provincial rank in the Masonic world, and was a keen sportsman, having been captain of Chelmsford C.C. Club and playing member of Chelmsford football and hockey clubs. During the war he was chairman of the Chelmsford A.P. Committee.

BROWN.—At Southcote, Berwick-on-Tweed, on August 25, 1945, Mr. John Brown, Ph.C.

ELLIS.—Recently, Mr. David Ellis, 4 Devonshire Road, Sherwood, Nottingham, aged seventy-seven. He carried on business as a chemist in Loscoe Road, Carrington, for more than fifty years.

MCLEAN.—On August 18, Mr. Hugh Duncan George McLean, M.P.S., St. Helier, Woodfield Road, Shrewsbury, aged sixty-one. Mr. McLean qualified in 1906. He was secretary of the Salop Pharmaceutical War Committee, and at the time of his death a medical representative for Boots Pure Drug Company.

PAGE.—On August 13, Mr. Stephen George Page, M.P.S., 16 Highfield Road, West Nuthall, Notts, aged fifty-one. Mr. Page qualified in 1923.

THOMPSON.—Missing in August 1943, in an operational flight over Germany, now believed killed, Mr. Gerald Thompson, formerly of 31 The Grove, Ealing, London, W., only son of Mr. Thomas Thompson, Ph.C., 21 Bibsworth Avenue, Swanshurst Lane, Birmingham, 14.

WILLS

MR. SAM GARDNER, wholesale drysalter, Thorn Croft, Marton Gate, Bridlington, Yorks, left £785, with net personalty £739.

MRS. MARGARET WOOLLS, 2 Pall Mall Mansions, Cornwall Gardens, Margate, Kent, for many years managing director of V. J. Woolls, Ltd., chemists, left £18,943, with net personalty £4,454.

MR. WILLIAM FOWLIE HAY, M.P.S., 476 Union Street, Aberdeen, and 16 Westholme Avenue, Aberdeen, who died on November 21, 1944, left personal estate in Great Britain valued at £12,335.

MR. ROBERT DONALD DOUGLAS, M.P.S., 7 Bangholm Avenue, Trinity, Edinburgh, and 1 Brandon Terrace, Edinburgh, who died on December 28, 1944, left personal estate in Great Britain valued at £4,535.

MR. ALFRED BODEN, of the Terrace, Woolley Road, Matlock, Derbyshire, formerly of Lincoln, founder of Bodens (Lincoln), Ltd., wholesale druggists, who died on December 20 last, left £7,370, with net personalty £7,289.

DR. KENNETH JAMES WILLIAM CRAIK, Ph.D., 86 Inverlieth Place, Edinburgh, Director of the Cambridge Unit of Applied Psychology for the Medical Research Council, left personal estate in Great Britain valued at £5,487.

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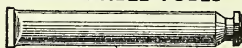


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V. CXLIV SEPTEMBER 1, 1945 NO. 3421

Supplies and Services Bill

The Supplies and Services (Transitional Powers) Bill, by means of which the Government proposes to continue economic controls during the transition period from war to peace conditions, was re-introduced in the House of Commons on August 23 in practically the same form as it was originally presented by Mr. Herbert Morrison, Home Secretary in the Coalition Government, by whom it was dropped. The new Bill, however, contains some important differences. For example, its period of validity has been extended from two years to five years and it gives the Executive powers to make Defence Regulations in respect of price control of goods or services. The Bill provides also for the amendment of the Goods and Services (Price Control) Act, 1939-1943. Price control of goods of a description by Defence Regulation is a novel feature which has hitherto been possible only in connexion with the control of production and distribution. Control of prices and charges under the new Bill is likely to cover a range of products wider than that hitherto affected.

The control of prices of goods and charges for services has been difficult to apply throughout the war because of the complicated systems of price adjustment permitted by war-time legislation. Each price-controlled article has had to be considered from the point of view of its actual cost,

pre-war profit, permitted increases, etc., with the ever-present possibility that a small error in calculation might lead to serious trouble. While it is obvious that price control of commodities in poor supply is a necessity during the transition period to ensure fairness in distribution, it is to be hoped that the control made possible by the new Bill will be applied only where necessary in the public interest and will not become an adverse factor in post-war trade recovery. The Bill will be presented for a second reading on October 9.

War Years' Import Returns

THE Board of Trade returns of the import and re-export trade of the United Kingdom for the years 1938 to 1944 inclusive are largely concerned with bulk totals of landings which constitute a grave warning of our unhealthy economic position, and emphasise the absolute need for an early and rapid recovery in our post-war shipments of home-manufactured goods. The official returns do not include figures of our exports during the war years but, unfortunately, it may be assumed they were comparatively negligible with the possible exception of the early months of the war when "Cash and Carry" operated, and we had to export as much as possible in order to obtain foreign currency. There is little doubt that our exports of ordinary commercial commodities have dwindled almost to the point of extinction as the war proceeded.

The value of imports in 1942 in £ millions totalled £1,206 (munitions £209); 1943, £1,885 (munitions £652); 1944, £2,361 (munitions £1,055). The total values of non-munitions imports for these years are largely representative of food and drink, and raw materials and manufactured goods essential for the prosecution of the war. Values are estimated to have increased by 84 per cent. in 1943 and by 91 per cent. in 1944, measured by the values of 1935.

After the fall of France imports from European countries were reduced to very small dimensions, and the longer hauls necessitated by the closing of the Mediterranean caused a great reduction in the quantities of arrivals of war materials. Accordingly, as from June 1940, all non-Governmental imports became subject to

import licensing restrictions with a view to allowing only essential materials, food, etc., to be imported. The trend of imports in 1941 was steadily upward owing to the substitution of "Lend-Lease" for "Cash and Carry" early in that year and the increasing relative importance of munitions.

Re-exports Steadily Decline

Re-exports which were valued at £62 million in 1938 fell away steadily throughout the war years, totalling £46 million in 1939, £26 million in 1940, £13 million in 1941, £11 million in 1942, £13 million in 1943, and £10 million in 1944, with more than half the totals for 1942 and 1943 consisting of re-shipments of munitions.

In the classified returns under the heading "Chemicals, drugs, dyes and colours" import values during 1939-44 in £ millions were: 1939, £15.96; 1940, £17.58; 1941, £16.00; 1942, £21.88; 1943, £27.81; 1944, £25.07. The returns for "Manufactured oils, fats and resins" include the following annual values in £ millions of imports of "Natural essential oils other than turpentine": 1939, £1.17; 1940, £1.39; 1941, £0.99; 1942, £1.45; 1943, £1.08; 1944, £1.30.

Re-exports of the "Chemicals, etc.," group in £ thousands in 1939 totalled £474; 1940, £597; 1941, £410; 1942, £238; 1943, £799; and 1944, £943. "Essential oils" re-exports total values in £ thousands were as follows: 1939, £581; 1940, £477; 1941, £124; 1942, £29; 1943, £26; 1944, £21. Taking into account the substantially increased values during the latter war years the volume of our re-shipments of these commodities appears to have been quite negligible.

A Noble Foundation

We are happy to publish in this issue (p. 228) a brief illustrated record of the development of the Royal Commercial Travellers' Schools. The schools were founded at a meeting held at the London Tavern, Fenchurch Street, London, in 1845, called at the instigation of a Mr. John Robert Cuffley, when it was decided that the purpose of the schools should be "the education, maintenance and clothing of the orphans of deceased and the children of necessitous commercial travellers who are permanently

incapacitated." The first schools were situated in Wanstead, London, E., where thirty-five children were cared for and educated. In less than ten years the number of scholars had risen to 130, and it was decided to build larger premises elsewhere. Land was purchased at Pinner and the schools illustrated on p. 229 were completed and opened in 1855 by the Prince Consort.

During the past century there have been admitted rather more than 4,600 boys and girls who have gone out into the world mentally, morally and physically equipped to become useful citizens. Many have achieved positions of honour. During the useful life the movement has attracted the support of many distinguished men. Charles Dickens presided at the annual festival in 1854 and again in 1859, and at other festivals Thackeray and Bulwer Lytton presided.

The schools now have accommodation for 400 pupils, both boys and girls, and it is of interest to note that already thirty-seven war-orphaned children have been admitted. All trades are represented by the scholars, including six from the chemical trade, seven from oils and drysaltery, three from paint and varnish, seven from rubber, and nine from soap and perfumery.

The centenary of this "Noble Foundation" has recently been celebrated, and the board of management desires to express gratitude for the splendid support received from all trades, from commercial travellers themselves, and from business houses.

Decline in United States Exports

THE United States Bureau of Census announces that June exports of merchandise, valued at 881,000,000 dollars, were 23 per cent. less than in May. The decrease was due principally to a substantial drop in Lend-Lease shipments, which represented only 60 per cent. of total exports in June in contrast to 69 per cent. in May and 79 per cent. for the year 1944. The June Lend-Lease exports were the lowest since September 1942, and were 33 per cent. below the May 1945 Lend-Lease value of 788,000,000 dollars. The value of non-Lend-Lease or commercial shipments rose slightly from 350,000,000 dollars in May to 353,000,000 dollars in June.

EMPIRE NEWS

Films for Some Cameras.—In June, members of the public in South Africa were able to purchase films for certain cameras. A small shipment that had arrived—the first since December 1944—was equally distributed between chemists and druggists and photographic dealers throughout the country on the basis of their 1939-41 purchases. As before, supplies to individual purchasers were restricted, but it was thought that there would be sufficient films to go around. Another shipment was expected within a short period of the first.

Acute Poliomyelitis in India.—The incidence of acute poliomyelitis in India is stated by McAlpine ("Lancet," August 4, p. 5) to be higher among the British and American troops serving in India and the Middle East than in the armies at home. In India the incidence in officers is five times as high as in other ranks, the explanation put forward being a different standard of hygiene in officers' messes than in the men's quarters and their greater use of civilian-controlled establishments. Suggested preventive measures include a higher standard of hygiene in mess kitchens, particularly of officers, and the introduction of modern methods of kitchen hygiene in all civilian-controlled establishments, including railway restaurants.

Zanzibar Cloves Exports.—The report of the Clove Growers' Association of Zanzibar for the quarter ended March 31, 1945, just received, states that supplies and exports during the quarter were as follows:—

	SUPPLIES		EXPORTS	
	lb.		lb.	
Zanzibar	2,349,812	To all des-		
Peru	4,539,939	tinations	4,246,713	

Of the total supplies 3,623,761 lb. passed through the Zanzibar central market and 3,299,000 lb. were offered to and purchased by the Association.

Distributions and quantities exported were:—

	DESTINATIONS		Bales		lb.	
America, North and South	14,131	1,978,300				
India	13,239	1,853,475				
West Africa	1,433	200,620				
Turkey	640	89,600				
Australia	624	87,360				
South Africa	225	31,500				
East Africa	43	5,858				

30,335 4,246,713

In terms of standard bales (140 lb. net) supplies were 49,213 bales, exports 30,335

bales; the Association supplied 2,123,346 lb. or 50 per cent. of the total exports.

Stems and Oil.—The receipts of stems during the quarter were the largest of the seasonal year and brought supplies up to about the normal ratio to bud deliveries. Much of the material was of inferior quality due in the main to weather conditions during the harvesting time. Although prices for clove oils were unchanged throughout the quarter, there is evidence they may increase later on, for major consuming markets seem to be short of requirements and the prospects of an improvement in the supply position are not good, unless Madagascar oil becomes available at present prices, which seems to be very questionable. The United States have displayed interest in Zanzibar oils at prices above the United Kingdom levels.

Supplies of stems were 3,089,492 lb., and the distillery absorbed 2,046,256 lb.; exports amounted to 48,310 lb., compared with 117,068 lb. during October-December.

Pharmacy Act Amendment Proposals.—A Special Committee on Revision of the Pharmacy Act in British Columbia has been preparing a preliminary draft of suggested amendments to the B.C. Pharmacy Act for consideration of the Council of the Pharmaceutical Association. It is understood that, if the suggested changes meet with the approval of the Cabinet, the amended Bill will be presented in 1946 as a Government measure.

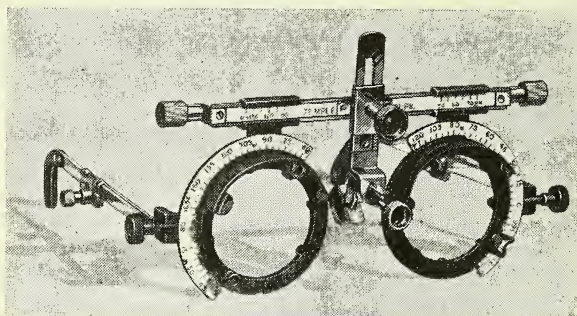
Post-war Boom Expected.—A three-year boom in the European toilet goods industry, which may begin within six months, was foreseen by Mr. John C. Gambles (chairman and managing director of the English branch of Northam Warren, Ltd.) during a visit to Montreal recently. The start of the boom might be delayed, he thought, by labour, transportation and material shortages, with the lack of essential oils the most likely hold-up. Lack of soap in France, and the coal shortage, which made hot water possible only once a week, were restricting baths for people in France, and French bathroom shelves were so bare that it would probably take three years to stock them again as they were in pre-war years. During that time the toilet goods industry should have a prosperous career. Although conditions in Britain were not so bad as in France, said Mr. Gambles, he predicted a vast expansion in Britain with the lifting of war-time limitations.

SIGHT-TESTING EQUIPMENT—5

by S. H. Lees, F.B.O.A. (Hons.)

IN spite of the many excellent refractors on the market, there are still opticians who prefer to use an ordinary trial frame. As pointed out in a previous article, a refractor is useful for static retinoscopy, but is not an alternative to the trial frame

light source six metres away, and a trial case lens focusing a third image between the other two. The trial lens, of course, must be of the same power as the marked power of the refractor lenses in its position when the light source is focused. Then a light source should be placed at 33 cm. and the card moved until the refractor lenses have again focused the image. If the trial lens has been kept in its original position, the middle image will be at focus.



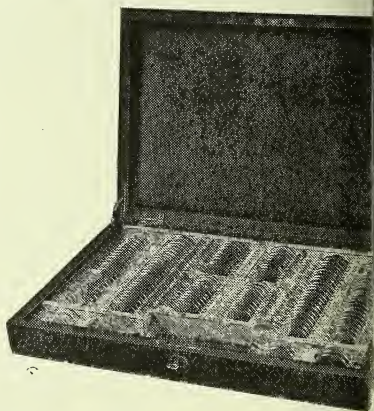
Croydon Trial Frame

for every purpose. Every refractionist, therefore, needs a trial case of lenses and a trial frame. A refractor is worth having as an additional item of equipment, but it has its limitations.

Relative Accuracy of Refractor

The battery system of lenses employed in refractors results, during the test, in some lenses being much further from the eye than spectacle lenses normally positioned. In using loose lenses in a trial frame, the practice is to fit the strongest lens of the combination into the back cell. Since this manoeuvre is impossible with a refractor, the lenses are computed to allow for the difference in effective power due to their position in the instrument. Consequently, for refraction at six metres, the refractor may be more accurate than the trial frame and loose lenses. But for near vision tests a refractor is unreliable, as the lenses, in the positions they occupy, show agreement between the indicated and effective powers only at six metres. At 33 cm. a presbyope apparently requires a much greater plus addition than is actually the case, and when high powers are in use the discrepancy is very great indeed. The possessor of a refractor can demonstrate this quite easily by turning up plus lenses of equal amount for R. and L. in the refractor, focusing on a card the images of a

Measuring Vertical Imbalance
The trial frame is also more suitable than the refractor for measuring vertical imbalances. When using a refractor it is difficult to be sure that the patient's head remains in a vertical position, particularly when the room is darkened, as when using Maddox rods. A slight tilt of the head produces a hyperphoria, but, with a trial frame, this tilt can be ignored, as the patient's head is in the same way when wearing



Case of Trial Lenses

spectacles while, as the trial frame is used with the head, the effect on the measurement of hyperphoria is negligible.

The cross-cylinder is useful for determining the amount and axis of astigmatism and may be employed either as a

es or to replace the fan and block method. The cross-cylinder consists of two cylinders of opposite signs, mounted in a ring of medium size with a long handle. The handle is mounted at 45° from the axis of the cylinder, so that twirling the handle reverses their respective positions. The most useful powers are 0.25D and 0.50D. Before using the cross-cylinder as a test, it is important that the sphere

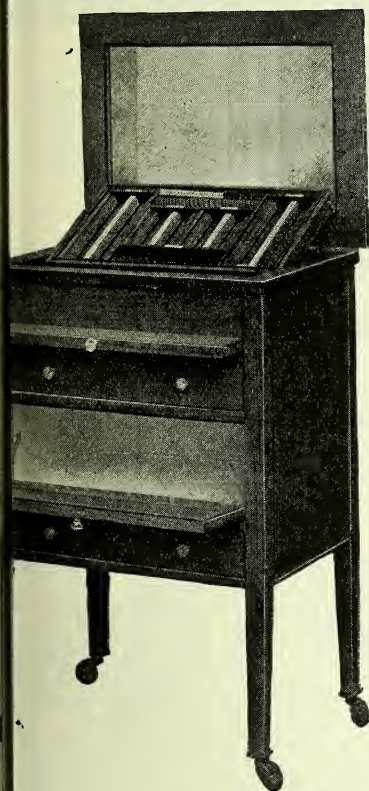
needs increasing, and if vision is better in the second position, it needs to be reduced. The test is carried out on the letters and, if the correction cannot be improved, both positions of the cross-cylinder will cause a slight blurring. The refractionist who has never used the cross-cylinder should draw diagrams showing the principal meridians in a case of mixed astigmatism. This condition should always obtain (unless the correction is accurate) when using the cross-cylinder. The effect of the cross-cylinder is to increase or decrease the interval of Sturm which, in mixed astigmatism, is bisected by the retina. A fuller account of this technique is contained in Emsley's "Visual Optics."

Comparator

The Swann-Cole Comparator is an inexpensive, yet valuable, hand instrument for making near comparison tests. By means of a bar, card-holder and septum, the patient is able to look at two charts at the same time, one for each eye. A large number of cards is supplied with the instrument, designed for near tests for cyclophoria, hyperphoria, and even for a rough estimation of the size of the blind spot. The most useful purpose of the instrument is in revealing the need for unequal reading additions. Using ordinary near test types a case may require, for instance, a $+2.0D$ binocular addition. But the Comparator may show that one eye requires a further 0.25D, while the other has better vision at near with a reduced power. The Esdaile-Turville equilibrium test is similarly used.

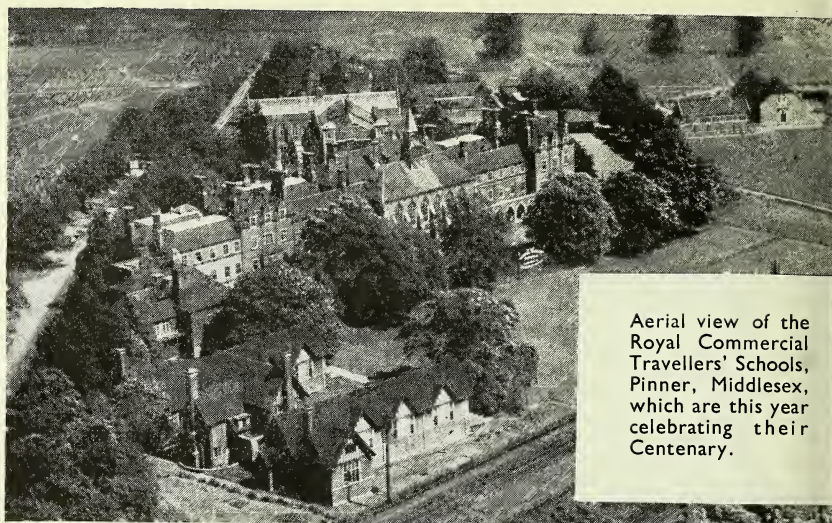
In the past decade aniseikonia has been the subject of careful investigation and research. One result has been the invention of the Barker Eikonometer. Difference in image size between the two eyes is corrected by the use of thickness lenses. Objection has been made to this method of treatment on the grounds that, if the degree of aniseikonia is great enough to cause discomfort or interference with normal binocular vision, it can only be corrected by making one of the lenses so thick and heavy that it cannot be conveniently worn; similarly, that if the correcting lenses are not too cumbersome for general wear, then the degree of aniseikonia is so small that its correction is unnecessary. This problem is one for the individual practitioner and his patient. There are still people with poor vision who apparently consider any optical aid too cumbersome.

Illustrations by courtesy, General Optical Co.



Trial Cabinet

un frame should be that which gives the best vision; there must be no suspicion of "pegging." The cross-cylinder is then placed with its minus cylinder axis corresponding with the minus cylinder in the trial frame. A twirl of the handle causes the cross-cylinder to exchange positions with the trial cylinder. If vision is better in the trial position, the cylindrical correction



Aerial view of the Royal Commercial Travellers' Schools, Pinner, Middlesex, which are this year celebrating their Centenary.

ROYAL COMMERCIAL TRAVELLERS' SCHOOLS

On the occasion of the centenary of this well-known charitable institution we publish a short historical account of its development during the past hundred years

THIS memorable year 1945 has an especial significance for the Royal Commercial Travellers' Schools, of Hatch End, Pinner, Middlesex. Along with the Allied victory they are celebrating the centenary of their foundation in 1845 by John Robert Cuffley.

To Relieve Distress

A very large number of now famous charitable institutions were founded in the 1840's. This is not surprising, for those were the difficult and hungry days of the Corn Laws. Wages were low, prices high, and jobs hard to get. The man who had to earn his living had a poor chance of putting anything by for a rainy day; and when he could no longer work the outlook for his family was indeed bleak. It is more than likely that what moved Cuffley to act was the distress among the wives and children of his own dead or invalid colleagues. He saw that the crying need was for nourishment, care and education for the bereft children, and that the best way of securing those essentials was by acquiring a building and starting an orphanage. He mentioned the idea to some of his fellow "knights of the road" whose travels had been more profitable than others. They responded with that warm and impulsive generosity that to this

day is typical of commercial travellers within a few short weeks Cuffley had raised over £2,000. And so, in December 1845 he was the spokesman of 200 commercial travellers called on a well-known city. Mr. George Moore, and asked him to preside at a meeting at the London Tavern. From that meeting was born the Royal Commercial Travellers' Schools.

In their early years the Schools were in Wanstead, but they quickly outgrew building there and after a few years were moved to Pinner. The first building was acquired at Pinner for £2,000 and was erected "in the Elizabethan style" at a cost of £20,000. The opening of the new Schools, which took place on October 27, 1855, was, as will be seen from our illustration, a great occasion. The ceremony was performed by none other than the Prince Consort himself in the presence of a host of supporters, including the Mayor of London. An address was presented to His Royal Highness which opened by gravely informing him that "under the appellation of commercial travellers, there is in this country a large and important class of persons whose business is constantly to travel for commercial purposes."

The story of the founding of the Schools is then unfolded in the same florid Victorian style.

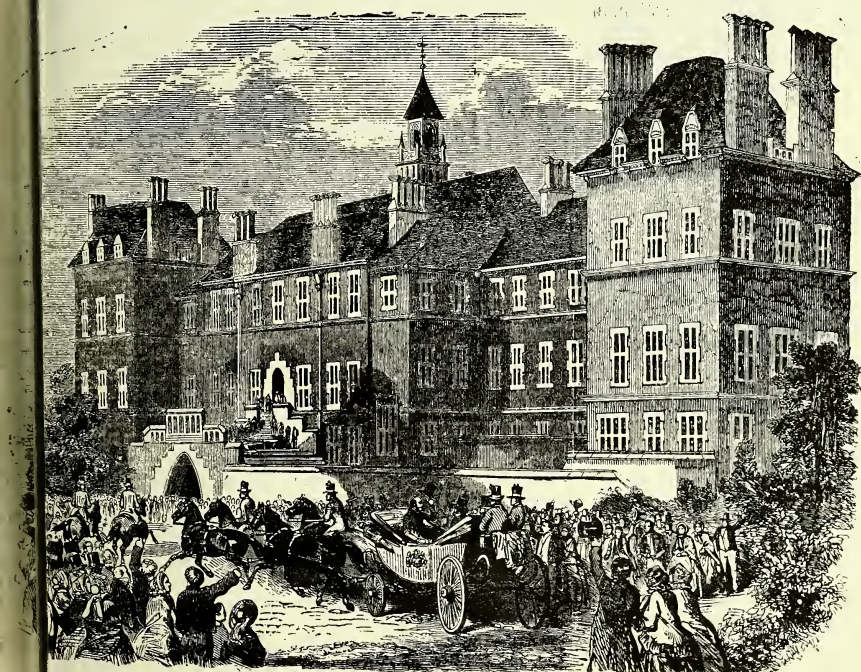
ending on the following slightly deprecating note: "To the cultivated taste of our Royal Highness, the edifice may present many architectural imperfections and defects; but the consideration that it been erected to succour and educate the poor will doubtless give it a charm in the estimation of your Royal Highness, which a greater architectural display might fail to excite. . . . It is true that this establishment, from its very nature, can never be distinguished in the higher branches of education and learning; still, it is hoped that in all those qualities which constitute moral excellence, the scholars of this institution may vie in honourable rivalry with the noblest in the land." (One wonders if this was the sort of language in which the "commercials" of those days approached prospective customers!)

To describe the next item on the day's agenda we can do no better than quote the reporter of "The Illustrated Times," who was present: "The young ladies who were provided with purses as offerings for the charity passed up the central avenue and deposited them on a table before the prince, who acknowledged each donation with a

smile and a bow which sent the fair donors back to their places with heightened colour and fluttering hearts." After this spectacle the whole company adjourned to a feast on which, in these days of points and coupons, it would be mere cruelty to dwell.

The Schools grew and flourished and won the approval of many illustrious men. In 1859 Charles Dickens presided at the festival dinner, and at other times the chair was taken by W. M. Thackeray and Sir Bulwer Lytton. The Elliott Hall and classrooms are a reminder of a prophecy made by Sir Bulwer. He predicted that the day would come when the Festival President would be an old scholar, and in 1901 Mr. B. G. Elliott (later Sir Bignell Elliott) took the chair and was able to announce that £14,000 had been collected.

Today the Schools have accommodation for 400 boys and girls. They are recognised as efficient secondary schools by the Ministry of Education. There is a swimming bath, a gymnasium and twenty acres of playing fields. Scholarships to universities and other educational institutions are available and the foundation has a very fine record of achievement in this field. The



Ceremonial opening of the new Schools, 1855



At this year's annual sports and prize-giving: Left: Mr. Sam J. Moss (claimed to be the oldest living commercial traveller) and the Misses Moss; Right: Mr. F. Adshead, M.A. (retired headmaster); the youngest girl pupil Sam J. Moss; the youngest boy pupil; and the oldest old scholar (Mr. F. J. Watson).

children of subscribers are accepted from five years of age and those of non-subscribers at seven years of age. Since the war instant admission has been granted to the orphans of families bereaved by the loss of one or both parents through enemy action, if the father was a commercial traveller. These children are taken from the age of five whether or not the father was a subscriber. Already there are thirty-five war-orphaned boys and girls among the pupils.

It is hardly necessary to emphasise the

claim which such a cause has upon the generosity not only of commercial travellers themselves, but of all who are associated with them in business. There are many ways of subscribing and those who support the Schools well and would like to help them on the way to their second century should communicate with the chairman, Mr. J. Freeman Dunn, or the secretary, Mr. A. H. Carpenter, at the Royal Commercial Travellers' Schools, Hatch Pinner, Middlesex.

UNITED STATES INDUSTRIAL EXPANSION

A VAST expansion programme, under which more than 9,000,000,000 dollars is planned to be spent during the coming twelve months by American manufacturers for new plant and equipment, and for expansion of working capital, is revealed in the present plans of American industrialists as analysed in a study by the United States Department of Commerce released on July 31. The proposed programme indicates that American industry in general is planning on large capital outlays. Furthermore, these planned outlays make sense in the light of the war-time expansions of capital equipment which have taken place. That is, industries which received large-scale Government financing of plant expansion during the war, plan relatively modest expansions now; industries facing big reconversion changes plan larger expenditures; and industries which were, so to speak, "starved" by war-time restrictions so far as expansion of plant are concerned, are going in for very large outlays. The way in which the money for these pro-

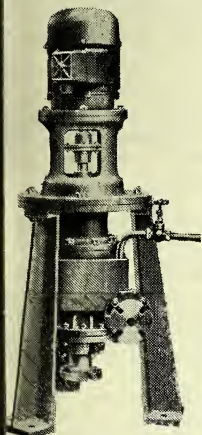
grammes is to be obtained shows clearly that American manufacturers in general are coming out of the war with a cash on hand. In other words, most expansion is to be financed by the manufacturers' own money rather than by borrowing. In this connexion the Department's study makes this comment: "Manufacturers' appraisal of their present financial requirements reflects the strong cash position. They expect to finance nearly 75 per cent. of the planned outlays from cash resources on hand or to be obtained from current operations. This appraisal appears conservative since an analysis of the probable operating results for the year in question suggests that virtually all of the amount expected to come from internal sources would be met from cash generated during the war without drawing on accumulated assets."

Still Wanted.—The need to save and to send waste paper for salvage is as essential as in war time.

MACHINERY AND PLANT NOTES

Centrifugal Pumps for Acids

PUMPS impervious to the action of acids and acid solutions are obviously important for numerous applications in the chemical industry. Heldrum, silicon-iron acid-resistant metal, used in the construction of a range of pumps of both plunger and centrifugal types made by Meldrums, Ltd., Timperley, nr. Manchester, is totally unaffected by sulphuric, nitric, and acetic acids of any strength or temperature. A modification of the standard metal is resistant to hydrochloric acid. The company is able to produce castings up to three tons in weight, as well as intricate apparatus such as pipes, coils, jacketed or other pans and stills.



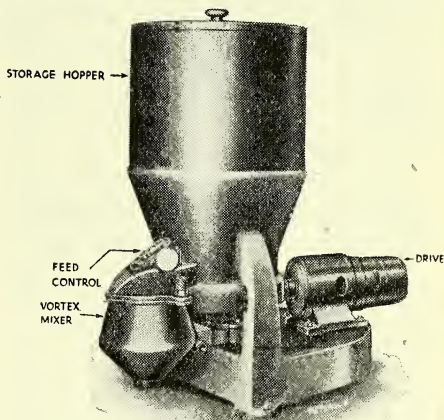
Vertical Spindle Centrifugal Acid Pump
(Meldrums, Ltd.)

Electrode Boilers

AMONG the advantages claimed for the standard electrode boilers for alternating-current supply made by Bastian & Allen, Ltd., 11 Bedford Square, London, W.C.1, is continuous operation at 97 to 98 per cent. thermal efficiency, small size and weight, extreme flexibility in operation, safety, automatic control, negligible trouble with scale, and elimination of all the troubles involved with the use of gaseous, liquid, or solid fuels. The electrode boilers for steam generation are in standard sizes, and of vertical type, within the range of 1,200 kilowatts, corresponding to an evaporation of 75-3,000 lb. of water per hour, and operating at any desired pressure, with superheaters, if required, up to 120 lb. per sq. in. gauge (tested to 250 lb.). Construction is from a solid drawn-steel tube, 24-30 in. in diameter, with welded, dished bottom and removable bolted-in flat top, on underneath which the electrodes are suspended into the water. Complete mountings are provided, including safety valve, stop valve, blow-down cock, gauge glasses, pressure gauge and steam-pressure regulator.

Dry Chemical Feeders

THE latest principles of dry-chemical feeding in manufacturing processes are well presented in the Paterson feeder, a production of the Paterson Engineering Co., Ltd., Windsor House, Kingsway, London, W.C.2. Suitable for the continuous feeding at any desired speed, varied almost instantly merely by rotation of a small knob, the feeder is suitable for a wide range of granular material. Essentially the machine consists of a sheet-metal cylindrical storage hopper with cover, and a substantial base with self-contained enclosed electric motor and a vortex mixer delivering the material, after thorough mixing with water (if this is desired) from a pipe at the bottom; included is a feed control mechanism to vary the amount of feed from the hopper mixer. The machine is in two sizes, with overall heights of from 3 ft. 2 in. and 4 ft. respectively; in plan view the overall



Dry Chemical Feeder
(Paterson Engineering Co., Ltd.)

dimensions are 2 ft. 3 in. by 2 ft. 11 in. and 2 ft. 3 in. by 3 ft. The machine can be fitted, if desired, with an additional large storage hopper for granular material. The machine has at the base of the stationary hopper a slowly-revolving feed-table driven by an electric motor (or other convenient drive). Projecting into the stationary hopper is an adjustable sectional feed-knife, which deflects a constant flow of the granular material into the vortex mixer placed below the hopper at one side.

TRADE REPORT

Spot quotations for pharmaceutical chemicals, crude drugs and essential oils represent the prices for wholesale quantities of standard quality. C.i.f. quotations do not include marine war risk insurance and other abnormal charges payable in the present emergency.

28 Essex Street, W.C.2, August 29

THE holiday month now drawing to a close has been characterised by the usual quiet conditions in the drug and chemical markets. Events in the military field will have their repercussion on the markets in due course, but some considerable time must elapse before supplies become available from sources long denied to the home markets. A good deal of interest is being taken in market circles in the announcement regarding the termination of Lend-Lease, as it is obvious that the withdrawal of these facilities will not tend to make any easier the position regarding the supplies of certain essential oils and botanical drugs. Prices in the London markets show little change on the week and the general tone is firm. Makers of PHARMACEUTICAL CHEMICALS report no change in the position except for reductions in the schedules of prices for NICOTINIC ACID and NICOTINAMIDE, details of which are given below. Business has been steady and in fairly reasonable volume in some products.

Crude Drugs

Apart from a good deal of inquiry from the Continent, mostly for crude drugs no longer in good supply, little of interest has occurred in these markets during the week under review. Prices, with one or two exceptions, are unchanged and the supply position generally remains difficult. ANTIMONY continues in steady demand at unchanged rates. Canada BALSAM is in short supply and inclined to be dearer. CARDAMOMS remain exceedingly quiet with prices for all varieties unchanged. CLOVES are reported to have been in rather better supply with the market quiet and lower prices ruling. GUMS are without quotable change on the week with only a moderate business passing. The American MERCURY market is reported to be showing renewed easiness as a result of the probable falling off in military demand, and it is quite possible that a similar position may arise in this country with the result that the official prices which have stood at a high level for some considerable time may be brought back to a lower rate. NUTMEGS continue in meagre supply and higher prices are being asked. QUILLAIA BARK is again reported dearer on spot. Some inquiry has

been received for SEEDS, but generally the market remains exceedingly quiet. THIMERIC is reported to be in very good demand but supplies are exceptionally poor at present. As a result, the price has advanced considerably.

Essential Oils

Reports from this section of the market indicate that there has been little activity during the week under review and values show practically no change.

Pharmaceutical Chemicals

ACETANILIDE.—Crystals and powder quoted at 2s. 5d. and 2s. 6d. per lb., respectively.

ASPIRIN.—Prices per lb., for lots of 28 lb. 1 cwt., are as follows (containers in brackets): 4s. 1d. (1-lb.); 3s. 11½d. (4-lb.); 3s. 10 (7-lb.); 3s. 10d. (14-lb.). Terms: Net 1 month.

ASPIRIN TABLETS.—Scales per 1,000, bulk supplies are as follows: Under 5,000 3s. 6d.; 5,000 and over, 3s. 4d.; 10,000, 3s. 3d.; 25,000, 3s. 1d.; 50,000, 3s.; 100,000, 2s. 11½d.; 250,000, 2s. 10½d.; 500,000, 2s. 10d.; 1,000,000, 2s. 9d.

CITRATES.—Makers' prices per lb. are as follows: POTASSIUM, in 28 lb.—1 cwt. 1 lb. (containers in brackets): 3s. 6½d. (1-lb.) 3s. 5d. (4-lb.); 3s. 4d. (7-lb.); 3s. 3½d. (14-lb.) 3s. 3d. (28-lb.); IRON AND AMMONIUM (SCALE B.P.), is at 2d. per lb. above, and SODIUM is 3d. per lb. below these prices. POTASSIUM AND SODIUM POWDER, one penny per lb. extra.

HOMATROPINE.—Makers' prices per oz. are as follows (prices per gram in brackets): ALKALOID.—1 oz., 97s. 6d.; 4 oz., 92s. 6d. 16 oz., 87s. 6d. (6s.). HYDROCHLORIDE, HYDR BROMIDE AND SULPHATE.—1 oz., 75s.; 4 oz. 70s.; 16 oz., 65s. (3s. 2d.).

LACTATES.—Prices are as follows: LACT ACID.—Six-winchester lots, 3s. per lb.; small quantities, 3s. 1d. CALCIUM LACTATE.—Small quantities, 2s. 5d. per lb. CALCIUM SODIUM LACTATE.—Powder, small lots, 3s. 7d. per lb. 14-lb., 3s. 4d.; 28-lb., 3s. 2d.; granular, one penny per lb. extra.

MAGNESIUM CARBONATE, LIGHT.—Makers' home market prices per lb., in quantities of 28 lb.—1 cwt., are as follows (containers in brackets): 1s. 3½d. (1-lb.); 1s. 2d. (4-lb.) 1s. 1d. (7-lb.); 1s. 0½d. (14-lb.); 1s. (28-lb.) Prices net one month.

MAGNESIUM TRISILICATE.—Home market prices per lb., for quantities of 28 lb.—1 cwt. are as follows (containers in brackets): 3s. 9d. (1-lb.); 3s. 7½d. (4-lb.); 3s. 6½d. (7-lb.); 3s. 6d. (14-lb.); 3s. 5½d. (28-lb.). Prices net one month.

MANDELIC ACID.—In good demand; 1 lb., 22s. per lb.; 4 lb., 20s. 3d.; 7 lb., 18s. 6d.; 14 lb., 16s. 9d.; 28 lb., 15s. Sodium and calcium salts are at the same prices.

METHYL SALICYLATE.—Continues in good demand at unchanged prices. Smalls, 2s. 6d. per lb.; winchesters, 2s. 1½d.; 56 lb., in demijohns, 2s.; 1 cwt., in demijohns or carboys, s. 11½d.; 5 cwt., 1s. 11d. All prices net.

NICOTINAMIDE, B.P.—Makers announce a reduction to the following new rates: 10 kilo., 55s.; 5 kilo., 36os.; 1 kilo., 37os. per kilo.

NICOTINIC ACID, B.P.—Makers' prices have been reduced with the following schedule now operating: 28 lb., 7os.; 14 lb., 72s. 6d.; 7 lb., 5s.; smaller quantities, 8os. per lb.

PHENOLPHTHALEIN.—Current rates are as follows: Less than 7 lb., 4s. 8d. per lb.; 7 lb., s. 7d.; 14 lb., 4s. 6d.; 28 lb., 4s. 5d.; 1 cwt., s. 4d.

Crude Drugs

ARECA NUTS.—Some wormy material is to be had on spot at 85s. per cwt.

BALSAMS.—*Peru*, steady on spot at 8s. per lb.; *Canada*, in short supply at 12s. 9d. to 13s. per lb.

BELLADONNA.—English herb is quoted at s. 6d. per lb. Indian root, testing 0.25 per cent., would be worth 2s. 3d. per lb., if available.

BISMUTH.—Minimum 5-cwt. quantities of metal are quoted at 6s. 3d. per lb.

BUCHU LEAVES.—Limited quantities on spot are priced at 5s. 3d. per lb.

CARDAMOMS.—Demand small, values unchanged. Current prices are as follows: Aleppy seeds, spot, 5s. 6d. per lb.; Aleppy seed, 6s. 3d.

CHILLIES.—Spot, Mombasa, 105s. per cwt.; West African, 105s.

CINNAMON CHIPS.—Quoted on spot at 2s. 2d. 1 lb., ex store London.

CLOVES.—Market quiet and easier. Zanzibar, 10s. 5d. per lb.

COCHINEAL.—Silvers, spot, 6s. per lb.

COLOCYNTH.—Spot price of fair white would be 2s. 6d. per lb.

DIGITALIS LEAVES.—Quiet and unchanged. Portuguese, spot, 14os. per cwt.; English, 16d. per lb.

ERGOT.—Any available good-quality material would be priced at about 6s. 6d. per lb., but supplies are scarce.

GUM ACACIA.—Kordofan cleaned sorts, spot, s.; bleached, 175s.; Talha, cleaned, 47s. 6d.

HENBANE.—Indian, spot, 25os. per cwt.; Egyptian (*muticus*), 85s.; Russian, 325s.

MALE FERN ROOT.—Indian is available at s. 6d. per cwt., spot.

MENTHOL.—Brazilian is quoted on spot at s. 6d. to 85s. per lb.

MERCURY.—Official quotations range from 3 10s. to £69 15s. per flask, according to conditions and quality, with higher prices for smaller lots and redistilled grades. (See Introduction).

PEPPER.—Whole, not picked over or cleaned, on sale to processors, is officially priced at 1s. 4d. per lb. for white and 1s. per lb. for black.

QUILLARIA BARK.—Spot, natural, 9os. per cwt.; cut, 11os.

SEEDS.—Quiet conditions obtain. Current rates are as follows: **CORIANDER.**—Indian, none available, price nominal at 92s. 6d. per cwt.; Russian, fair amount here, but demand small, price 92s. 6d.; English, limited stocks, price 9os. to 95s. per cwt. **CUMIN.**—Maltese, 12os., sellers; Indian, same. **DILL.**—London, 85s.; Liverpool, 8os. **FENNEL.**—Supplies exhausted, nominal. **FENUGREEK.**—London, 75s.; Hull, 7os.

SENNA.—Alexandrian hand-picked pods are scarce; price nominal at 4s. per lb. Good manufacturing Alexandrian pods, 2s. per lb.

STROPHANTHUS SEED.—Spot quotation for 100 per cent. Kombé is unchanged at 7s. 6d. per lb., with business quiet.

TRAGACANTH.—Medium grades are quoted as follows: No. 1, white, £130 per cwt.; No. 2, white, £115; No. 3, white, £100; No. 4, white, £85; pale leaf, £60; amber leaf, £50; dark amber, £35; brown leaf, £25; red-and-brown leaf, £20; red leaf, from £17; hoggy, £12 to £15.

TURMERIC.—In considerable demand, with supplies difficult to find. Madras finger, sound-quality, spot, Liverpool, 85s. per cwt., value. For good-coloured fine powder, from 105s. to 11os. would be wanted.

WAXES.—**BEES'.**—Prices of crude for the home trade were given in the *C. & D.*, June 2, p. 570. **CARNAUBA.**—Fatty grey, spot, 49os.; chalky grey, spot, 475s.; prime yellow, spot, 585s. **OURICURI.**—Spot, 31os. to 32os., according to quality; shipment, 285s., c.i.f.

Essential and Expressed Oils

CASTOR.—Official prices for bulk supplies are as follows: "Firsts," £82 per ton; "seconds," £80, both prices naked ex works.

CLOVE.—English-distilled continues very firm at 12s. 6d. to 13s. per lb., according to quantity, with supplies not too easily available.

CORIANDER.—Small supplies of English oil may be obtained at approximately 18os. per lb.

COTTONSEED.—Controlled prices for bulk supplies are as follows: Crude, £52 2s. 6d.; washed, £55 5s.; refined edible, £57; refined deodorised, £58 per ton; all varieties are quoted naked ex works.

NUTMEG.—In short supply, with 55s. to 6os. per lb. indicated for English-distilled oil.

OLIVE (EDIBLE).—The price charged to the wholesaler by the importers is 25s. 9d. per gallon, ex store. Prices charged by wholesalers to retailers are agreed by the Ministry of Food as follows: 33s. 6d. per gallon, in 1-gallon loan cans; 34s. 3d. per gallon, in ½-gallon loan cans; 35s. per gallon, in 1-quart loan cans; 36s. per gallon, in 1-pint loan cans.

RAPESEED.—Official price for bulk supplies remains at £88 per ton.

TRADE MARKS

(From "The Trade Marks Journal," August 8)

"ROXANA"; for perfumes, toilet creams, and toilet preparations for the hair (3). By Vine's, 222-24 Harrow Road, Paddington, London, W.C.2. 630,481.

"EUXESIS"; for shaving cream (3). By Aimee Lloyd & Co. (1933), Ltd., Heronden New House, The Quarter, Morphew Lane, Tenderden, Kent. 631,994.

Device of a woman's head (disclaimed) and word "AVA" beneath; for soaps, perfumery, essential oils, toilet and cosmetic preparations (3). By Ava, Ltd., 41 Brixton Water Lane, London, S.W.2. B633,495 (Associated).

"TEL-CAMA"; for toilet powder (3). By R. J. Reuter Co., Ltd., 246-48 Bedford Avenue, Trading Estate, Slough. 633,989.

"HIGNESS" (device of a crown); for soaps, perfumery, essential oils, toilet and cosmetic preparations, hair lotions and dentifrices (3). By P. Z. St. Pol Cardenache, 26 Palace Court, Bayswater, London, W.2. 634,421.

"PREL"; for shampoos and soaps (3). By T. Hedley & Co., Ltd., Phoenix Buildings, Collingwood Street, Newcastle-on-Tyne. 634,577.

Device of hair-drying machine, with face drawn upon same; for perfumes, cosmetic and toilet preparations, and sachets for waving the hair (3). By Lennard, Lee-Narvil & Co., Ltd., 216 Anlaby Road, Hull. 634,598.

"NEPTUNE" (device of King Neptune and mermaid); for soaps, etc. (3). By J. Bibby & Sons, Ltd., 21 King Edward Street, Liverpool. 634,719 (Associated).

"ROBA PHARM" (word "Pharm" disclaimed); for pharmaceutical preparations (human and veterinary); sanitary substances; infants' and invalids' foods; medical and surgical plasters, bandage material; dental material; disinfectants, weed killers, etc. (5). By Robapharm Laboratoriums A.-G., c/o Elkington & Fife, 329 High Holborn, London, W.C.1. B629,093.

"VAM"; for pharmaceutical preparations (human and veterinary); sanitary substances; medical and surgical plasters; bandages, etc. (5). By T. J. Smith & Nephew, Ltd., Neptune Street, Hull. 629,542.

"OPTULLE"; for medicated paraffin tulle; "OPTUSLTULLE"; for tulle impregnated with an emulsion containing sulphanilamide (5). By Optrex, Ltd., 14 King William Street, London, E.C.4. B633,498-99 (both Associated).

"VITAQUINE"; for pharmaceutical substances (human and veterinary); infants' and invalids' foods (5). By Roche Products, Ltd., Welwyn Garden City. 634,430.

"FARASAN"; for disinfectants (5). By E. Newton & Co., Faraday Chemical Works, 15 Holt Street, Birmingham, 7. 634,595.

"BEN ATTOW" (views of Scotland); for toilet paper (16). By Kittybrewster (Paper), Ltd., 106-12 Great Northern Road, Aberdeen. B633,000.

Device of an old priory, with words "The Old St. Philip's Priory"; for pharmaceutical preparations and substances (5). By The National Drug Co., 6-8 Albert Road, St. Philip's, Bristol, 2. 634,494.

"ZEFINGE"; for analgesic and sedative preparations in tablet, liquid or powder form for treatment of respiratory complaints (5). By G. W. Taylor, 40 Duncombe Street Walkley, Sheffield. 634,682 (Associated).

Device of man speaking into microphone; and word "TANNOY"; for photo-electric apparatus; optical instruments and apparatus respirators and acoustic apparatus therefor etc. (9). By G. R. Fountain, Ltd., Tannoy Works, Canterbury Grove, West Norwood S.E.27. 633,454-55 (both Associated).

"GLASTICS"; for glass containers and glass stands (21). By Glastics, Ltd., "Beverley," Carroll Avenue, Ferndown, Dorset B633,922.

APPLICATIONS AMENDED AFTER ADVERTISEMENT

Specification No. 624,956, by A. Hirsch (Filterit) Ltd., should be altered so as to read, "Filtering materials being raw or partly prepared vegetable and mineral substances and not being absorbent neutralising decolouring adsorbent or catalytic substances."

Specification No. 633,202, by The Southern Manufacturing Co., Ltd., should be altered so as to read, "Pharmaceutical saline preparations for human use."

(From "The Trade Marks Journal," August 15)

"IRANODEM"; for industrial and scientific chemicals (1). By Anglo-Iranian Oil Co. Ltd., Britannie House, Finsbury Circus London, E.C.2. 633,623 (Associated).

"CLORSAN"; for agricultural and horticultural chemicals (excluding insecticides, etc.) (1). By Boots Pure Drug Co., Ltd., Station Street, Nottingham. 634,460 (Associated).

"CORLUTIN," "TANNISTREN" and "VERODORM" for pharmaceutical preparations and substances; "AROTEX"; for insecticides and fungicides (5). By Bayer Products, Ltd., 14 Waterloo Place, Pall Mall, London, S.W.1. 634,834-37, 634,920.

"ZEPHYR"; for hairdressing and hair-waving machines (7); and for hair-drying appliances (9). By Apex Hairdressing Equipment Co., Ltd., 64 Frith Street, London, W.1. 634,906-07 (both Associated).

"LENG"; for toilet brushes, etc. (21). By C. Leng & Sons, Ltd., Hazelwell Brush Works Fordhouse Lane, Stirlchley, Birmingham, 30 628,636 (Associated).

Device of a camel standing upon a turtle with "Staff Allens 1833" beneath; for spices and essences, etc. (30). By Stafford Allen & Sons Ltd., 20-42 Wharf Road, London, N.1. 634,664 (Associated).

CONVERSION OF SPECIFICATIONS, Section 36 (3) and Rules 6 to 8. To Schedule IV (with amalgamation). Specifications Nos. 528,466 and 528,803, for common soap and perfumed soap, by T. Hedley & Co., Ltd.

PLACE YOUR ORDER NOW BRONCHIAL EMULSION



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4-oz. Bottles $6\frac{2}{3}$ Per Doz. + 16 $\frac{2}{3}$ P.T.

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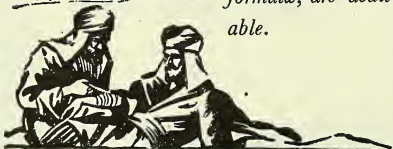
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NATIONAL WAR FORMULARY, AMENDMENT
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Each capsule is equivalent in Vitamin content to 4,500 units of Vitamin A and 450 units of Vitamin D in 3 minutes of an oily medium.

DOSE: 1-2 Capsules a day, or as otherwise prescribed.

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FLVAZOLE is an equimolecular chemical combination of Proflavine
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Clinical results have shown Flavazole to be most effective against a wide
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Carton containing 12 and 100 sifter packets
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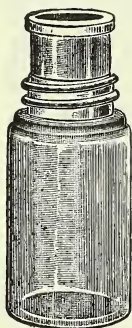
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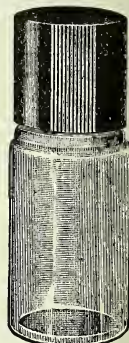
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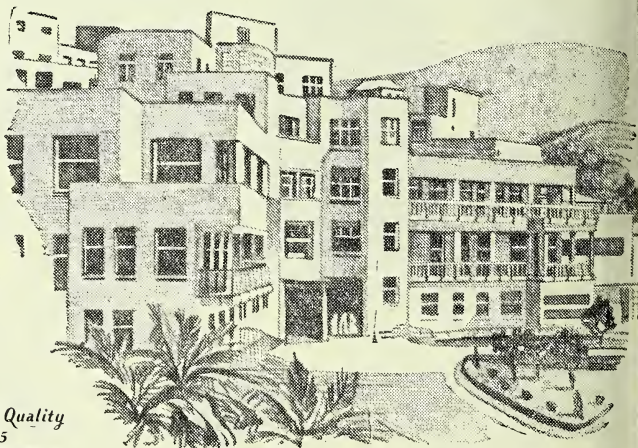
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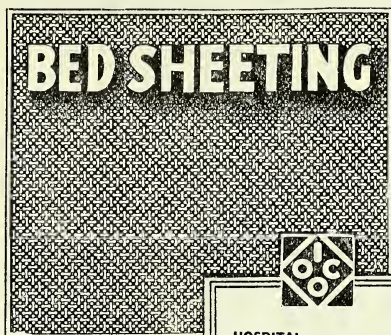
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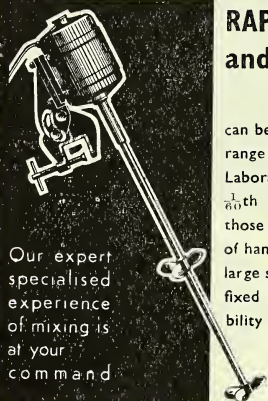
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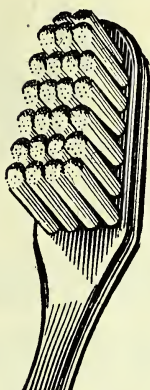
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Contains 3 active
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For a healthy scalp
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The CHEMIST AND DRUGGIST

SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

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SEPTEMBER 1
1945

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YOUNG Pharmacist (male) required. State all particulars, salary, etc., in first letter. A. L. ng, 10 Horseley Field, Wolverhampton.

TON-UNDER-LYNE CO-OPERATIVE SOCIETY, LTD. Pharmacist required to manage i; also Qualified Assistant for main premises. nday or half-holiday duties; good prospects. giving full particulars to "Arcadia," Stamford , Ashton-under-Lyne.

TON-UNDER-LYNE CO-OPERATIVE SOCIETY, LTD. Pharmacist Assistant required ain premises. No Sunday or half-holiday ; good prospects. Apply giving full particu- "Arcadia," Stamford Street, Ashton-under-

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ISTANT wanted, with photographic experi- nce, for Sales Counter; permanent position; salary and very good prospects. Wallace n, Ltd., 127 New Bond Street, London, W.1.

CKHEATH, S.E.3. Manager required for ood family business; permanency; good nd conditions. Write, 623/452, C. & D. n Office.

MIST, over military age, to assist pricing Com- any's Stockbooks; temporary; London. "A" c/o 622/413, C. & D. London Office.

MISTS (Male or Female): Several with experi- nce, wanted to take charge of Branches at nd under negotiation to purchase. Good wages nditions. Applications in writing, giving full ulars and endorsed "B/M" should be sent to h Co-operative Wholesale Society, Ltd., rug Department, 187, Bognor Road, all, Glasgow, S.W.1.

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LEICESTER. Manager for busy Dispensing busi- ness required early as possible; possibility of living accommodation available; unqualified As- sistant also needed. 623/453, C. & D. London Office.

LOUGHBOROUGH. Dispenser, Apothecaries Hall, required immediately for General Practice. No secretarial duties. Apply, with full particulars, to Drs. McQuat, Goode and Norman, 28 Leicester Road, Loughborough.

METCALFE & CO. (Liverpool), Ltd., in Liver- pool, require a Qualified Pharmacist to re-open one of their branches. Permanent position; good wages and conditions. Apply by letter only to 34 Landford Avenue, East Lancashire Road, Liverpool, 9.

NORWOOD, S.E.19. Vacancy occurs for Manager in high-class Pharmacy, near Crystal Palace; family type trade; congenial post. Write, 623/454, C. & D. London Office.

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PART, or Full-time Qualified Assistant required until return of dispenser from Forces next year. London suburban pharmacy. 623/447, C. & D. Lon- don Office.

QUALIFIED (male or female) required for busy shop. Apply giving references and salary required to E. Pyke, M.P.S., 127 North Rd., Preston.

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TAYLORS CASH CHEMISTS have vacancies for qualified Managers; permanent or short-term appointments; London and district; good working conditions. Apply to Retail Staff Manager, Taylors Cash Chemists, 70 Vauxhall Bridge Road, S.W.1.

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LOCUM for one or two weeks, beginning Sept. 10; salary, 12 guineas a week; no extra duties; two assistants kept. Cameron, 366 Garratt Lane, S.W.18. Phone: Wimbledon 3310.

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EXPERIENCED Chemical and Drug Professional required by Manufacturing Chemist in London district; excellent prospects to successful applicants. Send full particulars to 622/407, C. & D. London Office.

M.P.S. required by Laboratory near North Herts, for dispensing hormonal vitamin preparations; part-time or full time applicant's wish; suitable for man living on L.N. King's Cross-Cuffley line; none but M.P.S. apply. 622/436, C. & D. London Office.

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PROCESS Worker (male) wanted for drug analytical laboratory; must be experienced. West Midlands. Apply, Philip Harris, Ltd. Edmund Street, Birmingham.

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REPRESENTATIVE required for London manufacturing chemists to call on, and to develop existing connexion of Wholesalers and Hospitals in London and, occasionally, provinces; produce medical specialities, raw materials, and "own brands" of proprietary; applicants must have thorough knowledge of the business, with selling ability a sound progressive position a right man. Write full details to 623/444, C. & D. London Office.

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RESEARCH Chemist (B.Sc. standard) wanted to work under Chief Research Chemist in laboratory of old-established, small, but progressive manufacturing chemists; interesting, permanent progressive post to well-trained and enthusiastic man. Write, fully stating qualifications, experience and salary required, to 623/450, C. & D. London Office.

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SOLE Agents in this country for various pharmaceutical French lines, desire to appoint Selling Agent ready for active resumption of trade with Continent. Representation for English line present open over many parts of the country to men calling on Chemists, Stores, Hairdressers. Write 623/465, C. & D. London Office.

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VANCIES exist for young Qualified Pharmacists with a West London firm of manufacturing firms. The positions are permanent ones and show excellent prospects for capable men. The initial salaries are either in the control laboratories or production departments and future promotion and increases will depend on ability. Minimum £400. 623/469, C. & D. London Office.

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ASSISTANT PHARMACIST, temporary. Must be M.P.S. or Ph.C. Salary grade, £250 × £10 = £300 p.a. plus war bonus 23s. p. w. male, 18s. 6d. p.w. female.
Apply to Medical Superintendent.

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Dispenser, Locum (male or female), for one week commencing September 10. To work under direction of Pharmacist-in-charge. Hours: 9.30-5 p.m., 1 p.m. Saturdays. No Sunday duty. Salary at Guild scale. Apply, Secretary, West Kent General Hospital, Maidstone.

SITUATIONS WANTED

for 18 words or less, 1d. for every additional word.

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Y Assistant, unqualified, experienced, seeks post west side of London. T. M., 68 Dean's Hanwell, W.7.

Y Dispenser Book-keeper (Hall), 20 years' experience, desires post with Doctor. Surrey postal district preferred. 623/467, C. & D. London Office.

NAGER (Drug Stores), recently similarly engaged. Senior experienced man. "Chemist," 37A, Parkgate Road, London, S.W.11.

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QUALIFIED Chemist (lady) free for locum work from end of September; Cardiff or South district preferred. 623/441, C. & D. London Office.

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MAGER with practical comprehensive knowledge of Galenical Manufacture, Packed lines, Ointments, Sundries, Buying, etc. Experience of staff control and factory management. Several years representative experience. Unified, interested in any remunerative offer. Monthly. 623/470, C. & D. London Office.

THEIRN IRELAND and/or Eire. Pharmaceutical Chemist (ex R.A.F.) desires one other of perfumery, cosmetics or speciality. Long-established pre-war connexion chemists, stores, and retail. Part expenses. Details, "Chemist," 38 Halsford Green, East Grinstead.

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REPRESENTATIVE (49), long-established connexion, highest class, in Kent, Surrey, Sussex, full-time appointment with House of repute. Commission and expenses basis. 620/339, C. & D. London Office.

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EXPORT TRADE

ADA FELD, 7 Chepstow Court, London, W.11, are prepared to accept Export inquiries for Beauty preparations.

AGENCY or Distributorship in India of products saleable through Chemists and Druggists, desired by United Medical Stores, Ltd., 16 Bonfield Lane, Calcutta. Telegraphic address, "Unimedito." Bankers, Mercantile Bank of India, Ltd. References from May & Baker, Ltd., Dagenham, London; Burgoyne Burdidges, Co., Ltd., Eastham, London; Dakin Bros., Ltd., 44-50 Southwark Street, London, S.E.1.

IF you want U.S.A. business, write to us for particulars of our National connexions; highest Bank and Trade references. Especially interested in Pharmaceutical specialities, druggist sundries, toilet preparations and cosmetics. William George Scott Agency a complete sales coverage for manufacturers. 4001 Walnut Street, Philadelphia, 4, P.A., U.S.A. Telephones and cables, Evergreen 7100 and 5440.

PALESTINIAN Firm wishes to contact Manufacturers of Chemical and Pharmaceutical Products, with view to Agency. 623/459, C. & D. London Office.

AGENCIES

7/6 for 36 words or less, 2d. for every additional word.

AN Icelandic firm seeks Agencies in Drug trade; pharmaceutical products and surgical instruments. Apply to 622/434, C. & D. London Office.

LANCASHIRE & YORKSHIRE.—Manufacturers of Medicinal Proprietary line, wish to contact firm having established sales organisation with chemists, grocers, Co-ops. and allied trades. Sole agency arranged with suitable House. 623/456, C. & D. London Office.

THE JOHNSON AGENCIES (PTY.) LTD., of Clarendon Works, Clarendon Road, Croydon, Surrey, are prepared to accept two (2) more products for complete distribution to the pharmaceutical trade. Only first-class products are required (either pharmaceutical or toilet); only sole Agencies would be considered, for which in return complete distribution would be given. Only products that do not compete with existing agencies considered. Our Export company is also prepared to handle further products. Please write direct to Managing Director.

WHOLESALE Distributors with powerful Sales Force covering the whole of United Kingdom and with extensive connexion amongst chemists, Co-operative and departmental Stores seek additional lines suitable for their trade; either Quota or Non-quota. Financial aid offered if desired to market lines. Apply 623/463, C. & D., London Office.

WANTED*7/6 for 36 words or less, 2d. for every additional word.*

BOTTLES wanted, new and used; 26-oz. Wine or Whisky type; 10-oz. Beer; 16- and 8-oz. oval ribbed Poison; and 4- and 8-oz. Panel Bottles. S.C.C., Ltd., 414 Walton Road, West Molesey.

BOTTLES, 1-oz. square or round screw-top Tablet Bottles, without caps, required; also No. 3 Tablet Bottles; prompt payment. Send samples, with particulars of quantities and price, to Universal Proprietaries, Ltd., The Grange, Dib Lane, Leeds, 8.

LARGE or small stocks of Old or Fresh Gaslight, etc., Photo-printing Papers or Cards; any sizes wanted. Offer yours to Pattison, Siddals, Derby. Phone: 45249.

MANUFACTURING Chemists (users) require Aspirin, powder or crystals, and Gualacal Liquid. Offers to 618/300, C. & D. London Office.

NATIONAL Cash Register wanted of recent manufacture. Particulars to Gray, Chemist, Taunton.

PODOPHYLLIN RESIN, Pelletum or Emodi; any quantity required urgently. Write, 621/388, C. & D. London Office.

USED 1-gallon cans, any type, 1-in. or 3-in. necks with or without lids or bungs. Any quantity up to 5,000 required. 621/400, C. & D. London Office.

VISCOSE or Transparent Paper on reels or cut; any quantity; best price paid; required by manufacturers. 621/383, C. & D. London Office.

WANTED, 3-oz. Bottles Liquid Paraffin; Saccharin Tablets (bulk); Cellophane Bags, plain or coloured, to hold 1 lb. Salts (satchel type). "D.", 9 Norfolk Place, London, W.2. Pad. 2714.

8-OZ. Plain Medicals, 8-oz. ribbed Ovals, 2-2½ oz Panels; divisioned cartons to hold any of these. Samples and prices to S. Tatlow & Co., Ltd., Eckington, Sheffield.

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CHEMICAL or Raw Material Producing Concern wanted by well-known firm wishing to extend its activities. 622/425, C. & D. London Office.

PHARMACIES. Serviceman, demobilisation September, requires one or more good Businesses; total around £7,500-£10,000; private or limited company; Mid-Sussex or Sussex; coastal areas; bankers' solicitors references given; required fullest particulars; strictly confidential. 622/439, C. & D. London Office.

PHARMACIST requires established Business, with turnover £2,000-£2,500, in any of the following counties: Herts, Essex, Suffolk, Kent, Surrey, Sussex, Bucks; living accommodation essential; no optics. Replies, in strict confidence, 622/437, C. & D. London Office.

PHARMACIST requires Business, Essex or Suffolk borders. Good living accommodation essential. Turnover about £2,000-£2,500. No optics. All replies in strict confidence. 620/350, C. & D. London Office.

BUSINESSES FOR DISPOSAL*7/6 for 40 words or less, 2d. for every additional word.*

ABERDEEN. For Sale, old-established Dispensing and Family Business on main road; Kodak and Selo agencies; low overheads; good reason for disposal; immediate entry. 623/442, C. & D. London Office.

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SPECIALISTS in filling, labelling, and packing wet or dry products, under qualified control. The Finchley Manufacturing Co., 882 High Road, Finchley, N.12. Telephone: Hillside 1492.

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VERY well-known Distributors are open for more product for distribution to the public. Only a product that does not clash with existing agencies would be accepted; advertisers have a complete coverage throughout the British Isles, and an export business. Write, 623/445, C. & D. London Office.

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ACCEPT best offers about 500 stout Card Boxes, 11 in. high 7 in. across; 350 lb. 12 in. across, 8 in. deep, like new. Thomas H. 64 High Street, Merthyr Tydfil.

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DRYING Plants; Drying Ovens; 1-cwt. P. Mixer, with tilting pan manufactured by one small Coating Pan (copper); 1 Headwaymatic Scale (½ lb. to 3 cwt.); 1 copper-jacketed Melting Pan, 60 gall., with 2-in. bottom outlet. 80-lb. pressure, tested; Filling Machines for cream, and powder; all machines just as 623/440, C. & D. London Office.

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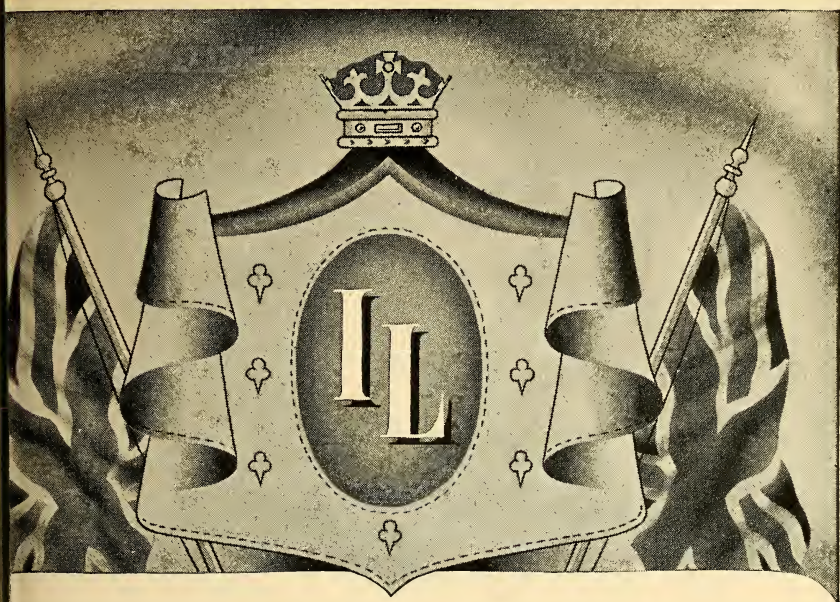
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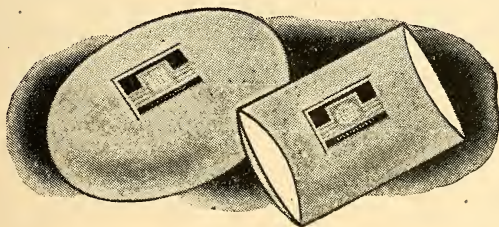


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